## IT Needs to Make Its Case For Security

#### Priority placed on facts, objectivity

BY JANGUMAR VIJAYAN

IT managers should focus on explaining business risk, customer impact moulatons

requirements and due dilisence when justifying the need for IT security in-

westments to comorate executives. IT and business managers at The Security Standard

conference here last week also suggested that security personnel not use technology jargon or over state the threats to their companies when proposing new projects to top executives.

turns on security insectments said I amount Vinnella shief financial officer at London based RT Clobal Sinancial Services' New York operation The most "What we are not effective looking for is the way to get more

to demonstrate achievable re-

elv-in-falling FUD" - fear uncertainty and doube Durine a nonel discussion at the

conference, Kinsella added that seem rity managers sometimes offer executives little reliable data to show that the projects they

are pushing will truly mitigate future risks And although traditional ROI estimates may not be required, security man-

Security, page 14

#### NetBackup Poses Problems for IT Managers Some putting off upgrades until year-old 6.0 release is fixed

Problems with the latest version of Symantec Corp.'s Veritas NetBackup software are still keeping some users from

rolling out the product almost a year after it started shipping. Steve Bally, a systems ensineer at RadiSys Corp., a

Hillsboro, Ore.-based maker of pany from performing tape embedded computer systems, duplication or sending backembedded computer systems is postponing a full rollout of the new version of NetBackup until Symantec fixes problems

"The vault service won't start," Bally said, adding that the glitch prevents his com-

with its vault service.

ups off-site. The vault service ates tape rotation. Bally characterized Net-Backup S.L. which he contin-

ues to use, as "solid" but said he wants to fully roll out Version 6.0 to gain access to new capabilities, such as the ability to restore Microsoft Share-Point Bortal Server services

Users said they hope that NetBackup 6.0 Maintenance Pack 4, which is slated to ship next month, will fix the problems in the software.

Version 6.0 of the backup NetBackup, page 64

#### ers Wonder If Microsoft Exec's ims Are Trustworthy

ROOMS TANABASE CAS-OT LUTRES-OCO 98234945/CB/78 CUPRACTO

UHI PERTURNION S PO BOX 1346

NH ARBOR HT. 48186-1346

curity is to flunk an audit test

"What we need from a CSO are facts, objectivity and some real clear meronmendations\*

curity Ci

## IBM





THE PAST PLACE TIME I OC

\_DMY 15: Our network's so complex it's impossible to manage. The bottlenecks and hotspots are out of control. We're not proactive at all; we're just reacting. Help!

\_Gil bought a crystal ball. He claims he con now peer inta the future af our infrastructure. Oh, please...

JAY 17: I see a better my: IBN Tivoli middleare. It for the no holistic view of the infrastructure and analyzes the relationship between our apps, systems and networks. Fixes problems practively for more uptime, more storage availability, more time to think big picture. Plus. it's come, modular and scalable.

.Gil says he faresaw all that too but farget to tell us.

Tivoli

Better manage the business of I.T. at:
IRM COM/TAKEBACKCONTROL/PROACTIVE

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09.11.06

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In the Vectories of VICes

In the Vectories of the Cost of a lost or stolen
laptop can be enormous in terms of your company's
reputation and legal liability, but tools are available
to keep the machines safe. Page 32



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Oracle strikes a deal with Philadelphia's government over a stalled system for water billing.

Supercomputing still plays a limited role in corporate supply chains, despite its benefits.

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and is using it to build its factories

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Controls, Mathias Thurman learns

Controls. Mathias Thurman learns that PLM data will be shared with outsiders and wants it done right.

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### MANAGEMENT

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Two attorneys highlight the risks in software as a service— and tell was house to mislease them.

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24 Bruce A. Stowart thinks too Many companies don't manage their outsourcers properly. 25 Michael Gartenberg Jooks at Iwo up-

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new HP way.

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## DILINE



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MOUNTY: Readers respond to the article
My Buttle Wish Spyward' with tips, on
ments and strategies of their own.

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ONLINE DEPARTMENTS

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THERASTRICTURE LOG

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Download the Letus Sametime 7.5 demo at: IBM COM/TAKEBACKCONTROL/SAMETIME

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Suit Over Torrest's lah Sita ta Cantinua A federal court in San Fra

has rejected Yarnet Corn 's mosticoni Federation for the ed that calls on the retailer That came on the reod combs & mount for a

#### cresoft to Patch draws Office

o three security of - One of the social the Same in Officer in control whether the pat a for for a Word 200

JPMorgan Chase CIO Adams to Retire

courses a \$7 billion --

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## AT DEADLINE Probe of Data Leaks at **HP Ignites Controversy**

In the past two courses of

lesse to states have possed

lower imposing constions

on pretexting, said Joseph

Conscrainte un attornes et

California's state legislature

the investigators she bired to

check the leaks lawfully and

advised it after reviewing

time it was employed

the situation that pretexting

wasn't generally illegal at the

told HP be couldn't confirm

complied in all respects with

licable law according to

that the investigators had

However, the counsel also

outlant the

manation Com

enceser bee

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and to decide

Company says 'pretexting' used to investigate hoard members reporters

----Handatt-Dackand Consensated ment that private immediantors probing media looks from the company's board of directors had accounted the personal phone records of some board

members and of nine reporters who comes UD The California attorn meneral's office said it had launched an inquiry into the escents at HP to determine whether any state laws were broken as part of Chairman Patricia Duno's count offers to unmask the director who leaked information about a strategy meeting to the oress. In a filing submitted to the

U.S. Securities and Exchange Commission last Wednesday UP confirmed that the external investigators in some cases had used "pretexting - a controversial method of obtaining an individual's telephone calling records by pretending to be that person

the filing. The company said it would cooperate fully with the

- whose personal phone to state attorner consults office On Thursday UP cont the

attorney general a list of nine renorters whose telephone necessary whose telephone by the investigators. An HP crokesman said company of Berne Com II Die New Verl ficials were "dismayed that the phone records of journalists menenth necessari more accessed without their a bill that would knowledge UP's heat course of action is

state attorney

"complete transparency," said 1 110 1 C Hunter Wisering a partner at Chicago based law from Sonnenschein Nath & Rosen that I I D "Admit that it was whether to sien a business blunder -- but it's or weto the bill errentially an internal issue UD cold in its - and do everything they can SEC filing that Dunn had told to discourage prosecutions.

from the sudden resignation of that HP's outside counsel had Silicon Valley wenture canital. ist Thomas Perkins from HP's board in May. At the time, HP provided no reason for his resignation But according to last week's SEC filing, Perkins resigned because of what HP described as his "personal frustration" with Dunn's handline of the leak probe.

Perkins, though, viewed

his resignation as a matter

- whose betsome brone tevia pretexting — asked HP to via pretexting — asked HP such techniques. Later, he sent a letter to the company's board threatening to po public about his reasons for parienine if UD his reasons for resigning if Hi filine about his departure In last week's 8-V filing UD and is thinks the Man disale rom of Derkins' reviewsion med Suprementa and assumblets as was accurate an leaks revealed that George Keyworth on HP director

of dissessment with LID's and the same of the same of the posicies - which means riv was required to uncome a

to the SEC. In June Perkins

The probe of the board-level since 1986, had been disclosinc confidential information shout board deliberations and other matters to the media, the company raid At the May 19 board meeting at which Perkins resigned Keyworth acknowledged that he had leaked information and was asked to eten down which he refused to do. HP said.

Keyworth's time on the hoard may be drawing short. though HP soid in the SEC filing that at a meeting on Aug Il the board voted not to nom instables for another term because of his conduct.

Martens writes for the IDG News Service

## IRM

#### THERACTORICTION I OF

\_DAY 33: Our information is silved. Unmanageable. People con't occess the latest info to make decisions. Gil's resorted to giving everyone access to everything all at once.

Monitors now outnumber humans 18 to 1

\_DAY 36: It's clear to me. We need an IBM Information On Demand middlewore solution. Info will be liberated from the silos—available when we need it, whatever the format. Accurate and in context. Now we can make swarter decisions and deliver real business value.

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## Philadelphia, Oracle Strike Initial Deal on Stalled Systems Project

Agreement would add third-party software at no extra cost, city says

HILADELPHIA officials less week assessment the signing of an

amount in principle with Oracle Corn. to restart the suspended rollout of a new mates billion costem called Water building system cannot

to the city The amended contract beween the city and Oracle calls for the installation of additional utility billing software from another wander to automent the applications in the original version of the system, said City Colinitas Damedo Dias Is

"We'll have the function that the city requires and be able to meet budget require ficials now expect the billing system to be up and rupo sometime next fall, be added The month has always there ware later than the city had and all and the second street of

Cost Remains the Same It wasn't specified last week that Oracle would pick up the rah for the additional software But outgoing Philadelphia CIO Dianah Neff said the project is still expected to cost the city about \$18 million - the same amount that was cited last month, when Neff said that local officials were perotiating



mish County in an extreme to review Project Ocean Neff and other city officials wouldn't identify the wendor of the new hilling software saving they wanted to wait

until the amended contract is unto the amended contract her job in Philadelphia last Eriday to do consulting on my nicinal wireless networks said the software is a well-become conduct that the city has already evaluated and found to ready evasuated and source he workable. The vendor is nes of Openha's managinal

business partners, she added Neff also defended the system's SIR million price tag. which is about double what the city anticipated it would be

Desnite market

hurdles remain

Over time, competitive pres-

sure may force many manu-

facturers to turn to high-

pressure, adoption

when Project Occup was con-

Supercomputing Slow to

... d la 2002 Noff statement that based on the industry hilling system the cost of installing one that's capable of serving Philadelphia's 600,000 acting CIO, said last week montes contomess and he expected to exceed

the expected \*We containly hope the (agreement in princinled ends the political turmoil." Neff said. "It has taken longer than boned but make come

un with a very good solution that allows no to make formed? She claimed that the Manage Office of Information Services took over Project

Ocean when troubles develoned and "pot the full blame for problems, which was a little issitation Neff stonned work last Oc-

Win Over Supply Chains hone that increasing pressures on companies to bring new harrior remain to mideenment products to market faster and use of the technology. squeeze out costs will help usher in broader use of HPC

The list of burdles they cited includes the lineering presence of legacy code that hasn't been adapted for newer. low-cost hardware: a lack of IT morkey with the right skille and the inability of man smaller companies to afford high-performance systems.

Middleware for adortine com-

plex computational codes to broader business uses was also cited as a need. Thomas Lance, director of the modeling and simulation program in P&cG's corporate

research and development unit, said high-performance systems aren't being widely used outside of automotive and aerospace supply chains The lack of adoption applies to P&G's own supply chain partners he said

Lange and other proponents

was designed to replace a 30year-old, custom-built hilling system Terry Phillis who has CIO, SHALINA MEEK

> codes will semain in place until the contract 1 11 6 1 ized, which is expected to occur within two to these weeks Ornele officials didn't respond to requests for

respond to requests for last work In Assessed a company spokeswom-an said that Project Ocean was still in progress and

that Oracle would deliver on its obligations to complete the soolications roll-Neff said last mouth that the problems with the software implementation stemmed

Users Conference said they

"We're not going to set crit

Lappe said "We're poing to

Large communies that already

use supercomputers and other

may also play a role in helping

For instance, Wal-Mart is

aiding its suppliers on HPC

issues on an 'as-needed bo-

retailer's chief technology

sis," said Nancy Stewart, the

officer. In one case, Wal-Mart

used its own HPC techniques

and technology to provide as-

sistance to a needy supplier,

Stowart exid

high-performance systems

their supply chaio partners

move to similar machines

that are present."

Helping Hands

from a combination of techni cal complexities Oracle's in-CII COllegeranges, Or et .. . . . . experience at bolianing such a system, and the departures of several project managers and contracing the depleament Later this month. Neff olsos to start work or Civitium LLC a consulting firm in Absharet to Go, that specializes in

....

municipal wireless networks Not who was the driving force behind a plan to develon a citawide wireless naturals in Philadelphia is leaving City Hall after five years or CIO the longest term oppose has spent in that position Philadelphia Mayor John Comme has exhaul the nitrole ethics board to review Neff's hisian by Civitium which

previously did work release to the city's planned missless network under two senarate contracts. Neff last week rolt. material that she isn't concerned shout the needs "There was nothing wrong with my decisions" she said "Anyhody who knows me knows I'm a very ethical person."

er less Thursday's third annual Aircraft engine maker Prott High Performance Computing & Whitney works with its sunpliers on HPC issues as well. But it also nave a lot of attention to determining whether the people who have access to high-performance tools "actually have the ability to use them," said layant Sabnis, chief engineer for systems analysis ria (for suppliers) to use HPC," and aerodynamics at the East Hartford, Conn.-based com use the standard market forces namy If the technology isn't sed correctly, the product

design consequences can be disastrous, be said. Last week's conference was sponsored chiefly by the Council on Competitiveness. a Washington-based industry group. The council thinks high-performance commuting is vital to the ability of the U.S.

to compete globally. Deborah Winco Smith the council's president, acknowledged the problems that are hindering adoption of high performance systems. But she said that broader use of the technology "will accelerate the nation's economic potential."

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to be off 10.500 employees by the meter charing to belo - 62 billion in arrest W7 and \$3 billion to OR and beyond, total exist is All and beyone, were then a mate its workforce to drop to 000 worldwide by mid-2007, on from 107,500 at the end of and marker Sam and the second second - 5200 mil

#### icrosoft Rei da Pricing Pla

seoft Corp. last week reno mentare, about a sensicolles retailer Ame closed a pricing plan for art on its Web site Mi-To suggested retain price where Vieta is \$350 for ves Vista Ultimato, \$299 adoes Vista Business. \$230 for Windows Vista Hor

for Windows Vista I um and \$199 for Wi i2 Charges SAP With Patent infringement clocies Inc. has filed ning SAP AG

ns on some of the CSM e maker's naterits. The unit, filed in a Toron federal rt, alleges that SAP violar nd tracking the sale of or ts to collect SAP said i ning the insert

#### M. Cisco to Pullon Valley Not

he Minima Silvan Valley Took erce has chosen a erce terns inc. and 1914 to uild and operate a Wi-fi wire and Wild to be the non

## ON THE MARK



## Math Wizards Untangle . . .

complex business problems with IT equations If you're trying to schedule thousands of dispersed airline crew members on hundreds of flights per day around the world you need more than naner and pencil. And if you're trying to detect medical fraud terne in wart amounts

amone millions of insmort minutes of the out instinct probable isn't enough. As William Pulleyblank vice provident of IBM's Center for Business Ontimization nuts it Comatimes you need Nack-helt mathemati-

cians to colve the problem." Pulleyblank quebt to know He holds a doctorate in math from Waterloo University. and until last year be ran IBM's Blue Gene project. which has produced some of the fastest supercomputers built thus far, Now, instead of scientific experiments bis calculations can affect a business's horrorn line But the computations are no less

complex he says. Although some of his team's work is industry- or even companyspecific, Pulleyblank says it has created a set of "core engines," such as an entity profile management system (EPMS) that can find put-

the world needs; marketers with math on their side. Goin' .mobi might necome . . . ... a speed burns in the data center, On Oct. II, the Internet Corneration

to tax compliance.

Next year, IBM plans

in FDMS so market.

ers will "have a more

costueffective way to

concrete domand \* Dulley

hiank says. Great lost what

for Assigned Names and Numbers plans m clear the path for registering Web sites under the mobi top-level

domain, which is designed for lowest-common-denominator

HAT TECHNOLOGY TRENDS NEW DRADUCT NEWS AND INDUSTRY RUZZ RY MARK HALL

cell phones that are Internet. cent places that are and tapable and support the Some people expect a crush of melicants stables shall in the next hot Internet market But Casad Cakaista won't be among them Schnie aty is the chief technology officer at Colorne Germanybased Content Man AC ashiok calls Wah site management tools under the monitor CMAstl. Va arrase that mobi will be more of a tinii .inooi wiii oe more or hardan than a boon "The problem for most compa-

ensists in turn binds of Web elec 7 Cobaleta com one they pun pour and one for makila mana That's month because wou'll need to nack one information that can be read by mobile devices. More important Schnigty contends your content will need to be designed for end users on the so. For example, it's probably dumb to translate your entire product catalog to pup on of data on mounthing your mobi servers but adding from fraud detection text directions to all of your sales locations might be smart Schnietz cautions that with to deliver tools based such hearles fusion IT to on the algorithms used ceptance is going to be slower

than some thansodize about." When you've got a big file, you . . .

one else. But if it's too big, usually around 10MB, your Internet service provider is likely to stop you. If that happens. consider You Send It Inc 's large-file mailing service. which the Mountain View Calif-based company will offer to business users this week. How large, you ask? Is 4GB enqueh? The service. which costs \$20 per end user monthly, encrypts data that's in transit to YouSendit's data center, then tracks who accesses the files. You can even design your company's YouSendIt drop box to look

like your Web site. The com-



my holds -11 Car seven dees atorine them longer tiseus ionge extra fee Lat and this seems You Sendit will let unu nass.

word-protect your stored files Consumers have been using Consumers have been usin om to WOM Beings 2007 and send an everage of I million files per day, says company spokesman Florian Brody

IPv6 may not improve the performance... of Web professions Com-Messiana CEO of Neell Inin Mountain View is con-

annual shee Web site manne ers may hope the improved posting features and large popload conscity of IP Version 6 will make their online ages perform better Ilb ub be seen IP ien's the

problem. Messiana save the bottleneck is its partner the Transmission Control Dec

tocal (TICP) For example, he points to a basic 70KB Web page that requires TCP to handle to round trips from server to browser to complete loading Th ert around that problem. Netli has set up 35 data centers worldwide and designed a proprietary alternative nect in your site through the

to TCP, Browser users conclosest Netli facility via a standard Internet connection: from there all data is trunsferred via the Netli protocol from an appliance housed in your data center. Messiana claims his company's protocol can deliver that 20KB Web page with only two round trins. Netli offers its technol. ogy as part of a service that starts as low as \$3,000 per month for one Web site.

### SHARP.



Keep the CEO's dream of growth from becoming the CIO's integration nightmare.











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l of an unpatched flaw relews 2000 version of oft Office 2000 that is med by attackers to no tred authors on vicnature. Microsoft Corn. of the best but would not ne its plans to fix the grob namine said affects

to that you would be instiand software se to Acquire saning Service see inc. has acrosed to how

SACE Willes in such Color to the arm now Jose 5 grobal 6 so said the 330 cm bile 365 will reco any after the ac

se a subsidiary called Syte ele 365. The deal is seene to close in the fourth quarter.

#### M to Build DOF

The II S Decertment of Four has chosen (BM) to build a new \$35 million superconnector led Readrancer, for its Los d to monitor and maintain the It will non Version 4.3 of Red Hed

#### crosoft Licen Data Mining Tech oft has Econord date

a loc that much so init Web situs try to gain pe their less sent their less of in Versions 6 and 7 of in-

## BRIEFS CA Broadens Integration Links, Database Support in Unicenter

Upgraded management software works with Microsoft's SOI Server

A INC. today plans to announce an un dated soleans of its A normark and systems management took forturing a a management tools reached date perceitory built on top of Mirroroft Corn's SOL Server. Farlier releases of the Unicenter Network and Systems

Management (NCM) and used the Ineres database which CA cold her fell to an investment firm that set un

Incres Corn as a constrate communy. CA will continue to offer Ingres with Unicenter NSM. But SOL Server will make the management tools more appealing to Windows users, said Airi Gonal, general

manager or error emergers Cornel and Release 11 1 - 6 Unicontex MCM con also be integrated with other CA nenducte including its net produces, increasing as occmanagement tools, and with management software from wendors such as Microsoft and Membert-Dackard Co.

Customer Anneal Cody Louder information curtems and technology manager at Zione Management Services Co. a division of Tions Bun

corporation in Sult I also City said be began installing Unicenter NSM RH I two weeks one to control a natural that has about 2,000 servers

said Rod Masney president of the Americas' SAP Users' Grown The use of SOA technology can ease the process of eathering the data needed to ensure compliance with reco-

lations, he said. Masney is also global IT architect at Owens-Illinois Inc... a Toledo, Ohio-based maker of packaging materials

Owens-Illiinois uses Virsa compliance tools, and Masnev said he is awaiting more details on how they will be integrated with SAP's new ince products.

Doug Merritt, executive vice president and general manager of suite optimization at SAP noted at a press conference last week that most compan now have functional silos that prevent employees in one

porate units to ensure compliance with regulations He said the new SAP tools aim to automate the process unit from gathering data from of risk detection by using another, Often, officials must data eleaned from a variety

eather data from multiple con

I ownler said that he hopes new event-correlation features in PH I will Section (false) and first and also also also

manager of CA's enterprise concer" of motern problems Dataich Managina adam annai dent of enterprise monit ine tools at Spriftle Ciningle Group's Paris-based corporate and inspertment hanking unit said he plans to ungrade to the new Unicenser NSM release within the next year to conport 1 300 servers and 66 000 other devices at 15 locations in blanch America

Mannion said a new Web. based user interface will be on improvement for IT staffers as will the stronger event correlation canabilities and a ande for the cofresse Inis Hernandez lead

reduced need to write custom software systems specialist in technical services at the

Description Colverton has been using P11 Lin a test consison. months and the series of the least home possible\* that he will roll metals and mentals are mini-

more than 200 service and 1 000 naturals devices by early next symmer. One of the new furtures he likes is the engine leatures no likes is the easie Dish Ptak, an analyst at Ptak

Noel & Associates in Amharet N II and the increa integration canabilities built into CA's new release should hele IT managers working in mixed-system environments where applications and data are used across widely distrib-.....

Pricing starts at \$2,000 for the software's manager com noment and \$7 200 for each server or system component 1

of sources. The tools can also create proactive responses by

be added The new SAP offerings can help companies automate risk management and compliance processes and include the shill ity to issue alerts and route them to appropriate pers in an organization, said Kath-leen Wilhide, analyst at Fram-

inchem Moss should IDC She noted that SAP is exnanding its stable of compliance tools at the same time rival vendors are looking to tackle the same problems. For example, she said, Oracle Corn. is partnering with third-party vendors to create such offerings. Oracle is also embedding

compliance technologies into its applications, she noted. SAP did not disclose pricing for the three new applications The new SAP GRC Reposito ry and SAP GRC Process Con-

trol will be available Nov. 30: SAP GRC Risk Management will ship in December.

### SAP Undates Compliance. Risk Management Tools

SAP AG last week househt out three new compliance tools as it expands its effort to help corporate executives stay in compliance with government regulations like the Surhanes Oxley Act and Basel II.

SAP officials said the new Governance, Risk and Compliance (GRC) products are built on a service-oriented architecture (SOA) to enable enterprisewide gathering, consolidation and presentation of

relevant operational information for risk management and liance efforts. The products are coming out just a few months after SAP beefed up its compliance business with the acquisition of

Virsa Systems Inc., a maker of risk management tools. There is considerable into

est among the SAP user base in SOA-based risk manage-

## Think you could use server optimization?

(Or are you okay with the way things are now?)



The Server Solutions You Need When You Need Them

in its riplant to the energy and the interference of the state of the energy of the state of the energy of the ene



#### . . . . . . .

Security \_\_\_\_\_ agers snould escarry articular

be said \* 16 is in most world releasement If you are not thinking a few a you are not tranking a rew I don't want to hear it " Kin-

selle soid The issue is existing people. sence or communicate start replacing reactionary security models with more programs ones said Soots Bloke shief information security officer at Boston-based I ibests Mutual Incompany Course

Make earl that escurity of figure must use learning that is clearly understand by business executions when they evoluin the need for changes And he said IT security officers must work to understand the reenirements of the business side

#### Tall it I the it is

The key is for IT manager to "keep it real and get something that resonates with the executive body," said John Schramm senior vice president of enterprise information security in the Cincinnati offices of Boston-based Fidelity

Investments. Schramm suggested that IT managers use external examples, such as a security breach or the emergence of a broad industry trend, to gain the attention of the every tives who hold the corporate purse strings. "Use examples. use events in the media; pick the top (security) issue in the paper, which these senior executives read, and show them how it is being addressed,"

Schramm said On the other hand Blabs noted that stories about external events, although powerful, the board and CEO and same. We are spending x percent, but we should spend v percent. is very challenging" if the discussion is based only on what other organizations are doing

he said Showing business executives how a security investment can protect a company

from least and assertance to abilities is also important exist Tom Bowers, manager of information consists operations to the feet and operations he asked and he named

to an extension of CC and ations the company's shilling to such level pertection under in tellectual property laws would he considerably waskened if it didn't implement what are seen as personable controls such as encounties content

monitoring and digital slokes Dishlighting such issues as help reinforce the business unbecof constitutionestments bandled

#### Continued from page I Trustworthy

vice president of Microsoft's security technology unit grown the security canabilities of today's Microsoft products a erade of B+. Five years are, be said that grade would have baen a C- or a D

Last year, we had or 300 products that 115al and wit three exceptions, they all passed. V ta is the first groduct that has none

through SDL from incention to end.

COUNTY TECHNOLOGY UNIT

What we need are facto chicotivity and some real clear recommendations fto demonstrate achiev able returns on security

investments) LAWRENCE KINSELLA CHES CHARLOUN OCCUPANTO OF STATE

FRANCISK OF ROCK

Donnler Callen chief comrite officer at the Transportation Security Administration tion security Administration, of Homeland Security noted

The improvements are the month of a timeltown I shift? Microsoft sparked by the Transport sparsed by L.s.
Transport of Computing memorandum that Chairman Bill Cates issued nearly five years ago. Fathi said.

Since then, the compa has completely overhauled its product development procarray and it has trained do. reloners to write secure code Eathi explained The initiative prompted the creation of the Software Development Lifectule (SDL) a requirie focused quality-control procour that's now used for every software product developed at Microsoft

"Last year, we had over 300 products that went through this, and with three exceptions, they all passed " Farhi said. The products that failed were blocked from release until the development team fixed the problems or found a way to mitigate them.

be said. "Vista is the first emoluci that has gone through SDL from incretion to end." Fathi noted As a result be said "there is a whole lot of improvement to security in the product" compared with ear-

lier products. Lisers at the conference were skeptical of that claim noting that it will take time for Microsoft to demonstrate

that products such as Vista are indeed more secure. Mark Olson, manager of

. time the need to convince specific security measures is less of a second for second sess of a concern for governand agencies in a few demonstral as

arement. arms bind of internal baseles # as many in the private sector more he said "The instead to make a case because there is a systematility or because of a running of because o

> Edward Amounto CSO at AT&T Inc. suggested that The most effective way to get more funding for security is to 0 -- 1 -- -- 10 -- -- 1

information excusity at Bash Israel Desconess Medical Center in Boston said that so for at least. Microsoft annears to be on the right truck with to me on the right track -- and ire Treetworthy Computing initiative

Homeson he also noted that the benith care organization has set to deploy any products built using Microsoft's SDL

"Until (such a product) is deployed and we have a solid 18 months of rontime I won't know for sure if they have notten any better" Olson said adding. "It's wise to be wary of

sales pitches Still, he noted, Microsoft's natch release process and its efforts to develop took such as its rootkit detector have been positive stees

#### Holding Off Marcin Czabanski, chief secu-

rity officer at Medical Network One, a Rochester, Mich.-based provider of managed health care services, said he is taking a "wait and see" approach to determining whether the security of Microsoft products has truly improved, as the company claims.

"There have been a lot of improvements of their processes, and their products are more stable," Czabanski said Even so, Medical Network One plans to hold off on deploying Microsoft's upcoming Windows Vista operating system across the enterprise

Hamman by also would be a mark a mosa is risky bacause such a move in timey to an authorit incompetence on the part of the security organization "That are by designation to a select Can be destructive to

But having an auditor come in to Mentify security cans on be a useful was of atterration the extension of the tracting the attention or top to be addressed immediately

be added "On the one hand In failed audit on success our dans know what you are doing, Amounto said "On the other hand it can be a great force for change " \$

Until [such a nioued and we have a solid 18 months of runtime. I won't know for same if they have notten any hetter. It's wise to be want of sales nitches

MARK OF SOM MANAGED OF INFORMATION SECURITY P INFURNATION SECURIT MEDICAL CENTER

until there is reasonable evidence that it's secure Czabanski also suspensted that Microsoft needs to improve the reliability of its natches. He noted that there have been occasions in the past where Medical Network soft patches that were initially

They have been soins in the right direction, but there's room for improvement," added Randy Bachman, information security principal at Lockheed Martin Information Technology in Newington, Va.

For instance, Bachman said, although Vista appears to be more secure than its mendanarana and has late. grated useful functions such as data encryption, Microsoft should also he working to add improved integrated spywaredetection and antivirus func-





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IT SERVICES AND SOFTWARE ENTERPRISE NETWORKING AND COMPUTING SEMICONDUCTORS IMAGING AND DISPLAYS

## 3) GLOBALDISPATCHES

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#### Mambare Pin Ell Over Microsoft Penalty

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me system Such (Adv. could here the commentals once of bureaus in her t trease they and In community worked letter submitted to bs Compatitual commu-

the level more = UK non-marketing - L K Heaton Harris Sharon Box lo. and Descriptioner people using instant plus Machai Kamuriska of this waste boot smaller of Baland - saidth a Macromote endland the negal days actions a "red factor" in an Aug 25 filing much the U.S. Secondaries and Leabanes

"The official objects that the t ammissant's actions are endanger ing the didity of humane in humaness. to compete wich ills." the legislators

In the SEC pline, Microsoft wrote July make not dates for Wiredows." Macrosoft and the compression have he had been over how the common to complying with the May be bring instituted do main as and the software ton her. The reduce or mine Mr. parett to provide documentation for certain

· LEBERTY VIDY, INC. NEWS CEDVICE

#### Matsushita Recalls 6.000 Laptop Batteries

A SAN ANTICA LLEG LINE Industria all tax last week announced that b it is recalling about retient laptop 19. Entrery packs because of potential

un other time problems

their abased Materialists better known by its Parassons, brand name, is n - illime the batters marks that wen shipped with its CI-W IG Let's Note Lentons in April and May of 2005. The negall applies only to machines that more shipped in Jaron, according to the

A Majsushita spokesman said the

model on a surface transferred to bem a state property and the property of the same and come is a copped or proced roughly on and one of the second of the latest to reme etrate the battery pack resultane in a charge one of that he also to another time be a self-liber common properties that

that class of methodine have been Locumented to date "This is very different from the Sons crace" the Managhita analogum marid and antique to the property and the health of

Inc. and Apple Computer rise, and Apple Comput Inner Delica Corn harmon of sixt a street by

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tormatte a sid there and an man who do fined to stonify the manufacturer. MADTYN WHIT HAVE YOU BE WE CEDUPE

shar of Chinese

#### Singapore Tests Wi-Fi Before Global Meetings

III. IN Law 195534 Day observed took size of tilescene at the t has at urbo-broating a from winelas terans to misses he most of the month's army diving meeting of the been by of any owner, of the Internation al Moneton Fund and the World Bank.

The transfer most may a scheduled to take place Sept. Pland 20 in Source none and the adapting mississes or n ment hopes to take advantage of the eathering to showerse Singapone's als an sol to broken infrastructure

in Judine its use of third-veneration mahile networks The Wish trial program covers a

section of don more a Singapore around the conference and exhibition center where the IME and World Bank move me will be held. The test area also includes five nearby shoreing malls according to the IDA.

Users will be able to surf the Internot but focus those up to it arounds of up to \$12Kbit sec., the IDA said. The month-lone trial of the Web increase called Wireless a Sti, comes ahead of plans to roll out a free nations ide

Wiski service starting in Laurans ■ SUMNER LEMON IDG NEWS SERVICE

#### Microsoft Satvam Onen Development Centers -----

to toward to on I Sate and Comment a service I and Saryam Comput In commend a management and together and the elegenest centers in Asia

The content has not in Manufact and the centers, located in strangual an end data to test and localize various financial cofes and jocanic Carious also develop applications specifically for the Chinese market, recording to

Mineral of the African "The concertonity lin Chinol is seen The opportunity (in China) is stagperiode the definition for their sequent and Con Was San Marmont's vice many front of color and an education in the president of sales a

The tree come mine most bey dieclose the hydroted cost of starting up and running the new facilities Saw and that under the terms of the personnel Hydrody J. Lynn 16 or on a ill some der tracker omorations at the centers while Microsoft will make its soften and americans received this when

THE PROPERTY OF MEAN COMME

#### Telstra Buys Control Of Chinese Web Site ---

see the second between and an nonneed that it has somined a montantline state in templace that I med tall which turn one of China's Lawrent and extent and home improve-

ment Web sites for \$30 million Ausrealism (6 %) million (1 %) Melbourne-based Telstra said it benefit the SPs at the in Southern to belie

beef up its online advertising busines in China. The commons added that the deal with Sout on is part of a broader plan to expand Teletra's business onprovious barond Amstralia and multi-its intellectual property and management experime to Beth order

Telstra's Web advertising unit, called Censis, will help manage Soutem as mort of the Aral Blut Vincent Mr. Some Jun's founder and CFO, will remain in charge of that company and not sin his 30.9% ownership share. The rest of Southern's recomment territorial also remain in place after the deal, the com-

nunios said They projected that SonFun will post teacure of 852 million Australian 15 20 7 million U.S. Lines Law or B ■ DAN NYSTEDT IDG NEWS SERVICE

Compiled by Mike Bucken

### Briefly Noted

late las -- armounced in Reservices India that will see cialization and and and and and and Charles II Optical Incident proof Shonthen China-hased Hugani said it expects to employ about 180 expi neers at the new lacility Inusignees included the second

week disclosed plans to expand its facility in the Crack Resolds city of as as need of an effect to become its shifts to deliver business process outrourcing (RPO) services to Furn nean customers. Rangalore based Informs said it expects to increase the worklesse in Bros Ison 130 per nie to 350 ha January. The operation has BEO clients in 16 European as or o consists in ■ JOHN RIBEIRO IDG NEWS SERVICE

ha n a contract valued at \$3.85 mi line Australian (\$2 million (1 \$ ) to install an academic application system for the Curriculum and Assets thority in the Australian state of Victoria Mumbai India-based Tata is building a system that is based on noftware from SAS institute for and

will held the academic history of each student in Victoria. The curriculum authority assesses student learn in the state and conducts research to COMPUTERWORLD AUSTRALIA

has appointed Makete re, who had been president al its TV division, to the new positi al quality control director. The move

follows the recent regalls by Dell and Apple of lapton PC batteries that included lithium-ion cells may by the Samy Energy Devices, unit. MARTYN WILLIAMS IDG NEWS SERVICE

last week opened its sirth facility for delivering se-called high tions, or HrPODS. The labs focus on resolving large-scale computing is-sues for IBM's customers. The new facility in São Paulo, Brazil, will be ed to a central lab in San Jose and operations in Beiging, Banga lore, Hursley, England and Yamato. Japan, IBM wouldn't disclose its investment in the São Paulo facility IDB NEWS SERVICE





### GLORAL

#### Mambare Din Fil Over dicresoft Penalty

OUR EUROPEAN PARI LAMENT mambars last week warned the Engage Commission that its actions toward Microsoft Corn could deline the subsect of the Victa oppose ine system Such a delay could have

the competitionness of European busi me compensation In a strongly worded OLOBAL FACT

Competition Commiscioner Maelia Kroes the besidence - U.V. representatives Chris Heaton-Harris, Sharma Bowles and Peter Skinner plus Michal Kaminaki of Poland - said that Microsoft called the regulatory actions = "rick

factor\* in an Aug. 25 filing with the II S Securities and Exchange Commission "This effectively means that the Commission's actions are endangerine the shifter of European business to compete globally," the levislators

In the SEC filing Microsoft wrote that "these uncertainties could... delay release dates for Windows Microsoft and the commission home locked borns over how the company is complying with the March 2004 antitrust decision against the software vendor The ruling requires Microsoft

to provide documentation for certain IN IFREMY KIRK ING NEWS SERVICE Mateuchita Recalle 6.000 Lanton Batteries

ATSUSHITA FLECTRIC Industrial Co. last week announced that at Co. last week amounted the PC battery packs because of potential

overheating problems. Osaka-based Matsushita, better known by its Panasonic brand name is

recalling the battery packs that were shinned with its CF-W4G Let's Note laptops in April and May of 2005. The recall applies only to machines that were shipped in Japan, according to the

A Metsushita snokesman said the

#### An International IT News Digest

mobilem can be trippered when a machine is dropped or placed reachly on count is unopped or placed roughly on can cause a spring in the latch to nonetests the bettern pack possition in a charte the minery pack, resuming in a he said The commons reported that

ne said. I ne company reported that documented to date TThis is some different from the Com-

case" the Matsushita snokesman said referring to the recent recalls by Dall Inc. and Apple Commuter Inc of almost 6 million inc. or atmost o munon Pagery Devices Com because of risks that then sould organized and source

> The cells in the botton ies being recalled by Metaubita numan'i made by Sony or produced internally said the snokes. man who declined to

identify the manufacturer MALETYN WILLIAMS INC. NEWS SERVICE THE RESERVE TO SERVE TO SERVE

inganore Tests Wi-Fi lefore Global Meetings HE INFOCOMM Develope

Authority of Singapore (IDA) has started testing a free wireless Internet service in advance of this month's annual joint meeting of the hoards of governors of the International Monetary Fund and the World Bank The two-day meeting is scheduled to take place Sept. 19 and 20 in Sinea-

pore, and the island nation's povernment hones to take advantage of the gathering to showcase Singapore's advanced technology infrastructure. including its use of third-seneration

mobile network The Wi-Fi trial program covers a

section of downtown Singapore around where the IMF and World Bank meeting will be held. The test area also includes five nearby shopping malls. according to the IDA.

Users will be able to surf the Inte net for free in those areas at speeds of un to \$12Kbit/sec\_ the IDA said. The month-long trial of the Wi-Fi service, called Wireless@SG, comes ahead of plans to roll out a free nationwide Wi.Fi service starting in las

III SUMMER LEMON IDG NEWS SERVICE

#### Microsoft, Satvam Open Development Centers -----

ICROSOFT and Satyam Comput - Company and less much injus by opened two software testing and development centers in Asia The control beautiful Chambel and Classes will use real-life scenarios - d date to test and learning regions financial auftware nackages. They will

mancus sortware packages, 1 ney wi for the Chinese market according to Microsoft and Satura "The opportunity fin China) is starcaring The demand for more conhicti-

gering. I ne demand for more sophistisaid Ken War Saw Microsoft's vice provident of raise and marketing in the Ania Desiferancian

The two componies wouldn't disclose the budgeted cost of starting un and running the new facilities. Saw said that under the terms of the someoment. Hyderahad-hased Serven will run daysto-day operations at the will run day-to-day operations at the its software engineers available when

mouseary.

#### Teletra Ruse Control Of Chinese Web Site

B PLETRA CORD last work announced that it has acquired a controlling stake in SouFun Hold. ines Ltd., which runs one of China's largest real estate and home improve-

many Web sites for \$321 million Aug. tralian (\$254 million U.S.). Martin and American and the bought the 51% stake in SouFun to help beef up its online advertising business in China. The company added that the

deal with SouPun is part of a broader plan to expand Telstra's business operations beyond Australia and apply its intellectual property and management expertise to new areas. Teistra's Web advertising unit, called Censis, will belp manage SouFun as

part of the deal, But Vincent Mo. Sou-Fun's founder and CEO will remain in charge of that company and retain his 30.9% ownership share. The rest of SouFun's management team will also remain in place after the deal, the companies said.

They projected that SouFun will post revenue of \$52 million Australian (\$39.7 million U.S.) next year. III DAN NYSTEDT IDG NEWS SERVICE

Compiled by Mike Bucken.

#### Briefly Noted

E IONE BIBLION INC HEMS OCCUPAN

NA WALLEY OF THE PARTY.

OR HEWS OFFICE

Innovations by InterSystems

# Java Developers Have Caché

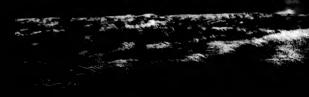


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#### The World According To Dennis





## Commerce Bank Gets Makeover at Branches

'Information-deprived' tellers to switch from 10-key calculators to deskton PCs

OMMERCE BANK Inc. month finished roll. ing out a retail bank-A least termination of the second of the tellers at its 140 branch on that because these into the PC Age for the first time Chuck View exponentian vice president for retail administration at the bank's St. Louis-

hased parent from Correspond Bancahares Inc. poted that prior to installing the new system "our tellers were still neine Makey Sharn (Flactons ical calculators. It was chean. and our tellers were pretty fast

The The edded from soul

ired that with our sellers being a key touchnoint for our customers we could no

longer line with them being so information-deprived." Moreover Commerce in moreover, commerce in crel small banks in its three state footneint which snow nosses Illinois Kansas and Missouri Vim raid Some had more advanced teller systems while others had more primitime ones and standardization

was necessary, he said In tackle the problems, th bank last year hired Getron-In Mar on American board IT services from and coftware developer that counts 17 are of

amone its customers. Getmonics finished rolling out Commerce's uperaded branch system a month son Kim said

Ease of Integration "It was a big leap forward." Kim said noting that Commerce telliers are now armed with

Dell PCs running the Microsoft Net-based Globalfa retail bank ing software from Germains Connected to a server in each branch, the system provides

tellers with quick access to information shout customers In addition to enabling tell ers to sell additional products and improving customer estis. faction. Kim said, the Getronics system integrates well with Commerce's existing online retail banking software. Vovseer from Corillian Corn. in Hillehoro, Orn Firm noted that the Corillian and Cotomics speliestions there a common hack and a similar look and feel and nearly all the same

The Clobalfs cofessors also allows Commerce to collect more information on teller

performance. Kim and al "We had mod information on what is going on at the call

on what is going on at the Ca have it for our tellers," he said. The size some and a let many reporting on what is going on with our tellers Now we know which types of transactions take a lone time. We con also do more intelligent staffing. And we can out the time for tellow to do their and of day

halances by 50%."

Vim added that the one nany has used sombisticated technology outside of branch offices for some time, such as "a pretty sophisticated Web platform system that our more specialized bankers wee"

Kim didn't disclose the cost of implementing the Categories of imprementing the Getroni nects to recom the investment in three to four moore Michael Formation annidate

Mikinger Kerr, vice presid rooics said the company specializes in building front-end systems for banks and it is Sedime a lot of apportunities amone banks that had held off on modernising branch tech nology in the hone that cus-

gy in the hope that cus-Web bessel benking "Freezobody save bee should no owner but then housen't "Kerr said "The Internevent, Kerr said. The inter the end of the day, people still

so to ATMs to get cash or to branches to deposit checks." Karen Massey, an analyst at Framingham, Mass-based Financial Insirbes, noted that about three quarters of bank. ing customers so to a branch at least once a month desnite the efforts of banks to steer them to less-expensive channels.

### Providence Unveils Wireless Network for Police, Fire Departments

Deveridence P. L. officials last week unveiled a \$2.3 million wireless mesh network that is already being used by personnel in some police and fire vehicker to access city records Descridence CtO Chadin

Hewitt said that so far three fire command vehicles and 24 police cars are linked to the mesh network, which inides 450 mesh wireless rout ers from Motorola Inc. that are attached to utility poles

roughout the city.

As many as 100 to 200 public rafety whicles will eventu be connected to the network, which provides quick access to criminal records, mue shots. building blueprints and other

The city plans to expand the network for use by public works and other municipal employees, including building inspectors, over the next year,

The project was funded U.S. Department of Homestatement from Masor David The city does not plan to allow public access to the

network Hewitt said The network is separate from a wireless system being develo for businesses in the state by the Rhode Island Wireless In evertion Networks, a unit of the popprofit state Business novation Factory eco

development group, be noted. The underlying network uses Motorola's Mesh Net work Architecture technology rather than Wi-Fi and operates

in the 2 4-GHz wireless hand Hewitt said. Providence issued a request for proposals more than a year ano and selected Motorola's

bid, which was the only one to meet the city's requirement that it be allowed to run the Providence chose the Mo-

torola mesh technology for a variety of reasons, including its ability to provide dynas routing should a wireless rout



er become disabled. Hewitt said. For example, if a car knocks down a pole holding a

wireless router, the system can use the next closest matter to forward a data stream, he said. The Providence effort will also include the installation of nursed 15-in, monitors in nolice and fire vehicles for viewing city records or for Web brows ing if needed, Hewitt said. Providence Fire Chief David Costs said be expects that

firefighters will be able to use the system to download data

building, as well as floor plans and other structural details. The new wireless system can also support video trans nissions but has not yet been enabled to do that, Hewitt said. A separate wireless network is used for wrice communications, partly to add redundancy in case of an emergency

about hazardous materials in a

according to Hewitt. Operation of the network has been nearly flawless in tests. Hewitt said, noting that it was easier to design and

ment the network than

to attach the soutest to utility For example each of the shoebox-size muters had to be designed to ensure that they

could withstand burricane force winds. The city attached the routers to poles after the original plan of using public buildings proved to be too complex and expensive.

Providence began a seas for a new wireless network technology when the provider of its wireless network declared last year that the rvice, running over Cellular Digital Packet Data (CDPD).

network was terminated in February, and the city is using an EV-DO, or Evolution Data Optimized, network from Ve rizon Wireless as an interim replacement, Hewitt noted that throughput for the CDPD system was about 19.2Kbit/sec... compared with 300Kbit/sec. or more for the mesh network. Hewitt did not identify the CDPD provider.

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#### DOMESTIC NOT A NOT

## The Disservice of Dissuasion

OT SURPRISINGLY. I've been getting a lot of mail from readers who disagreed with the position I took in my editorial last week on laid-off IT professionals. They took issue with my contention that the experience too often spawns what I called a "defeatiet" attitude that laid-off workers allow to san

their motivation to excel on the job. The succonscious and many passed on each arms than you seem to lay out." said one reader who idea. sided himself or an expert in northernum tic stress disorder "You don't just onis out the cand and shake it off It's a trauma and it will come out in 

The in most defeaterers stronged another reader who will hard have through three layoffs and at one point came within two months of heine homeless, "It is just plain fear." It's not my intent to in any way

trivialize the fear and trauma that having one's livelihood stripped away can naturally create. I can even understand that the trauma can easily lead to anner and bitterness. What I can't understand is why so much of the acrimony is directed so broadly at the IT profession itself

A blog we posted as a forum to elicit feedback on Thomas Hotfman's Aug. 28 feature "Discarded and Demoralized" (www.computerworld. com/blogs/careerforum) is rife with comments from people whose lavoif experiences have soured them on IT as a coreer "I cannot at this time. recommend this career to anyone." ana reader said

"At this point," another fumed, "I am constantly looking for business opportunities that will free me from

this hell called an 'IT career.' Another reader, whose family

has worked in IT for three senerations, said he was laid off in 2001. It took him 10 months to find another full-time job, and even then, he had to accept a lower salary \*Mr. oceans progress was truncated " he enid "Two warned all of my chitdoor own from this profurnish I may be third. constrain IT but there will not be a fourth" That's a shame Wa

mend to be now constal about couring our kids. on IT as a career The incredible newarding and stimulating nature of a enofossion that contributer to much to society aside comaidor about accompliant to the Buston of

Labor Statistics (BLS) in 2005 the LT sector's unemployment rate (3.9%) was significantly lower than the national unomployment rate (5 %) More than I million new IT jobs are projected to be added between 2004 and 2014. And six of the 30 occupations that are expected to grow the



Control of the state of the state of the state of IT workers who soe opener comnensation pastures outside of the profession moreover might be in for a shock. According to the BLS. in 2005 the mean annual calary for computer and information systems man pages was \$107.260 while the mean fearer for management occurs-

tions overall was \$88,450 Other BI S comparisons are telling Database administrators make more than commercial pilots and microbiologiste Systems software engineers make more than economists and chiroproctors Computer systems analysts make more than financial examiners and fushion decionery Deservaments make more than editors and technical writers

(a lot mond) Lunderstand that lavoffs are no picnic, but they don't justify a blanbet indictment of IT as a profession I avoifs aren't an IT sector phenomenon; they're a corporate workforce nhenomenon. Dissuading our kids I'll as a career is a disservice not only to them but to a critical profession that will be diminished without them I

RDDCE A STEWART

#### Manage Your Outsourcer ANY (At my clients

make use of outcourcing come with automicals Vol I had become a single one that's home with the re-Intioushin Consumons has made a mess of contracting for their services. or are they missing comething else? I shink show and missing come

thing proper management of their Ob ses, they spend a lot of time dualing with issues in the relation this flot we can be about head the

ish of raking the relationship where it mands to ma For instance few if any of them have cover opened time nothinking their IT processes in order to deal with their consequences officetively Broken processes now sean the two

openiostions and delays are freowent At the come time too much is expected that the outsourcer "knows" the effect - and not enough rime is spent giving explanations. background and briefings on plans and

expectations. They tried in most cases, to buy a utility service — "Give me a low unit price for this coming on that - and didn't think through the implica stone Malek on these

nor their outsourcing market and market management of the annulation of to manage that Tools and processes were mission there was no runne of strategy. One client, for instance, tied staffing to servers, then quickly found that the result was server pro-

But effective sourcing relationships are possible. They require a serious investment on the part of the buyer. It's not uncommon to see up to 2% of the outsourcing bill each year soing to support internal relationship managers, service delivery managers, planners and the like. Sourcing relationships require

that the buyer's overall organiza-



tion become more coordinated and controlled so that a structured plan for services can be delivered and agreed to Governance of IT inside the buyer organization tends to become more highly centralized. It's also necessary to continually review spending on IT in the business, to make sure that new IT staffers and resources aren't being used to cleanward efficiency in the

outsourcing relationship.

On the outsourcer's side, a similar commitment must be insisted upon

and adhered to.

The buyer must be prepared to be continually "sold" — often too much is given away by the supplied during it is given away by the supplied during and to value added services are required to grow the supplier's business. It is appropriate to buy some of these, where they make sense. It is also appropriate to continually respect the list of services in the instrest of migrating offerings that will be used repeatedly into the core services list, and perhips to the core services list. and perhips to the core services list, and perhips to the core services list, and perhips to the core services list. and perhips to the core services list, and perhips to the core services list, and perhips to the core services list. and perhips to the core services list, and perhips to the core services list, and perhips to the core services list.

value-added section (where they can be managed out of use altogether). Both buyer and outsourcer must work together on certain items. If there is a shortage of skills or labor in your region, this affects both of you. It's helpful to jointly address the problem, whether by changing your technology requirements of the moment or be helpful.

retain staffers.
There have been cases where an outsourcer's cost structure has been so compromised that deals have been terminated prematurely. It is better to give a little now than to have to recover

later from a sourcing deal gone under.
Outsourcing will probably not save
money; it may bring expertise if you
manage your deal to gain it. And that's
the key word — monage. Nothing good
happens without your effort! 9

MICHAEL

## It's Leopard Vs. Vista

Computer showed the world the next release of Max OS X, called Leopard. The company spent a lot of time talking

of Max OS X, called Leopard. The company spent a lot of time talking about how well the current version of OS X stacks up against the unreleased next generation of Windows, called Vista, but the real story is Leopard itself. Although Apple did not



instance, dear variations in vito president and research director for the Personal Technology & Access and Custom Research groups at Agricultural products of the Personal Indian and Personal Research in New York, Contact him at engantum-languistic part (PSS) food are resisting and PSS) food are

Most of what Apple showed in its Leopard preview doesn't look dramatically different from its Tiger release at this point, but the operating system includes some notable enhancements and changes

that make it stand out

And, ye, there are also some impressive things under the hood, such as the ability to scamlessly run 32-bit applications along with 64-bit applications. Anyone who went through the transition from 16-to 32-bit Windows knows this farit casy to do.) But more important, Apple demonstrated some powerful new features that should have amenal no hosh basis.

ness and consumer audiences.

Most impressive is the new Time

Machine feature for backup and recov-

cry, it may some beeing on paper, but when you see Time Machine in action, you begin to understand how powerfold this application is. Its certainly the cooless software interface of the cooless software interfa

Saw a similar reaction.

Saw a similar reaction.

Saw a similar reaction.

Saw as similar reacti

this one alone is worth the price of admission. The next few months will be very interesting. Vista int is cheduled to ship until parany 2007, and Leopard not until the spring, and it's not fair to make a final judgment until both operating systems are released to final form. In the Interin the market will be taking a close look at how these may see the programment of the programment of the programment with the programment wi

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out the door.

And the interesting thing about mind share is that, over time, it tends to translate directly into market share.

WANT OUR OPINION?

More columnsts and links to archives of previous columns are on our Web site.

Windows Genuine Aggravation

W GA SOUNGS like jast marther good reason to lock more closely at Mcc and Lima. If Commen Windows Genam [1] Commen Windows Genam Competition of the Amound Competition of C

nected to the Web, and to use Administrator bolley to install programs. These no wheelen of letting Microsoft coetrol my machine via the Web. It might be different if its products were truly superior, but they aren't it just brown how to maket it is sufficient. Ten Hopan Software consultant. Aslamsa

oftware consultant, Atlanta

PLEASE, OOM'T be so hard on Microsoft litts using WGA

for Windows and the upcoming Othor version to squeeze every genny it can fine so only protriable software. This is its way of a getting more money to throw at its efforts to put its competitors out of business. How else could if pay for all those exprovisable areas? WILLE PUSE.

Tiscson, Ariz.

Y ESTERDAY, I purchased my first copy of a Microsoft operating system that was not bundled with a system – XP Pro SP2

aining system that was hot bundled with a system. All Pin SP2 Within moments of legistering it online and frying log of seal of legistering it online and frying log of seal of legistering with to believe, since I opped a new pasking purchased from a line I retainer & Minkely by another 20 years before libry a method 20 years before libry a Microsoft oppositing system, but I expect 10 buy planty of Mac DS X (occesses and Linux distributions in the immediation).

James Arthur Strokm Austin, istrokm a evil net W GA. AND XP's activation process in general, is a russince, and I hate that Microsoft left had if is the only way to protect at its solfware from being prated. But unfortunately, if is probably connect. People want everything to be leen As an MCSE and consultant in deal with incremon assess.

all the time, and I've yet to come across a laise positive in WGA Michael Scott Williamson Systems analyst, Mystle Brach, S.C.

Patently Absurd William Herdle

M ANY OF the comments in your Aug 8 story "Inventors Object to New Patent Release Bell" (Computerworkscore) reflect insunderstanding oil the patent process. It's certainly inserted large companies may be able to

Bill (Longuteronoccorr) vened mounderstanding of the patient process. It's certainly line that targe companies may be able to the more quickly, but they must be able to show that they must be sechnology being parented if they expect a valid patent. If they shall someone else's invention and frie a patient, their patient is not vidid a patient, their patient is not vidid a patient, their patients (Monover, an invention commercially without patienting it operated for their patients in a many large and patient patients in a many large and patient patients in a many large and patient patients was for obtain patient patients and half or back or date in fragment of patients and delegant patients and

else independently invents and commercializes the invention William Herdle Brownfolf Monor N.Y.

Communitation of commun

DON TENNANT

## The Disservice of Dissuasion

OT SURPRISINGLY. I've been getting a lot of mail from readers who disagreed with the position I took in my editorial last week on laid-off IT professionals. They took issue with my contention

that the experience too often spawns what I called a "defeatist" attitude that laid-off workers allow to sap

their motivation to "The subconscious and emotions interact in a lot more complex scheme than you seem to lay out, said one reader who identified himself as an expert in pone-traumatic stress disorder. "You don't just spit out the sand and shake it off. It's a traums, and it will come out in one form or another."

"It is not defeatism," stressed another reader, who said be'd been through three layoffs and at one moint came within two months of be-

ing homeless. "It is just plain fear."
It's not my intent to in any way
trivialize the fear and trauma that
having one's livelihood stripped away
can naturally create. I can even understand that the trauma can easily
lead to anger and bitterness. What I
can't understand is why so much of
the acrimony is directed so broadly
as the IT profession itself.

at the IT profession itself.

A blog we posted as a forum to elicit feedback on Thomas Hoffman's Aug. 28 feature "Discarded and Demoralized" (www.computerworld.com/blogs/career/forum) is rife with comments from people whose layoff experiences have sourced them on IT as a career. I cannot, at this time, recommend this career to anyone."

one reader said.

"At this point," another fumed, "I am constantly looking for business opportunities that will free me from this hell called an "IT career."

Another reader, whose family has worked in IT for three generations, said be was laid off in 2001. It took him IO months to find another full-time job, and even then, he had to accept a lower salary. "My career progress was truncated." be said. "I've warned all of my children away from this profession. I may be thirdgeneration IT, but there will not be a fourth."
That's chann. Me

about souring our kids on IT as a career. The incredibly rewarding and stimulating nature of a profession that contrib-

sider that according to the Bureau of Labor Statistics (BLS), in 2005 the IT sector's unemployment rate (3.9%) was significantly lower than the national unemployment rate (5.1%). More than I million new IT jobs are projected to be added between 2004 and 2016. And six of the 30 occum-

fastest during that period are in the IT profession.
IT workers who see greener compensation pastures outside of the profession, moreover, might be in

pression pastures outside of the profession, moreover, might be in for a shock. According to the BLS. in 2005 the mean annual salary for computer and information systems managers was \$102,360, while the mean figure for management occupations overall was \$88,450.

tions overall was 886,00.

Other BLS comparisons are telling. Database administrators make
more than commercial pilots and
microbiologists. Systems software
engineers make more than economists and chiropractors. Computer
systems analysts make more than
financial examiners and fishion
designers. Programmers make more
than editors and technical writers.

I understand that layoffs are no picnic, but they don't justify a blanket indictront of IT as a profession. Layoffs aren't an IT sector phenomenon. They's a corporate workforce phenomenon. Dissuading our kids — or anyone else — from entering IT as a career is a disservice not only to them but to a critical profession that will be diminished without them. !

Don Tement



BRUCE A. STEWART

Manage Your Outsourcer

make use of outsourcing, some quite extensively. Yet I don't know of a single one than's happy with the relationship. Can everyone have made a mess of contracting for their services, or are they missing something else? I think they are missing something, more management of their

outsourcers.

Oh yes, they spend a lot of time dealing with issues in the relationship. But no one has shouldered the

snip, but no one has snouncered the job of taking the relationship where it needs to go.

For instance, few if any of them have spent enough time rethinking their IT processes in order to deal with their outstancers effectively

Broken processes now span the two organizations, and delays are frequent. At the same time, too much is assumed — it's just expected that the outsourcer "knows" the client — and not enough time is spent expressions of the client — and not enough time is spent

grying explanations, background and briefings on plans and expectations. They tried, in most cases, to buy a utility service — "Give me a low unit price for this service or that"

service — "Give me a low unit price for this service or that" — and didn't think through the implications. Neither they nor their outsourcing partners were necessarily equ

nor their outsourcing partners were necessarily equipped to manage that. Tools and processes were missing; there was no sense of strategy. One client, for instance, tied staffing to servers, then quickly found that the result was server proliferation.

But effective sourcing relationships are possible. They require a serious investment on the part of the buyer. It's not uncommon to see up to 7% of the outsourcing bill each year going to support internal relationship managers, service delivery managers. planners and the like.

Sourcing relationships require that the buyer's overall organization become more coordinated and controlled so that a structured plan for services can be delivered and agreed to. Governance of T inside the buyer organization tends to become more highly centralized. It's also necessary to coordinatally review spending on IT in the business, to make sure that new

used to circumvent deficiencies in the outsourcing relationship.

On the outsourcer's side, a similar commitment must be insigned upon

commitment must be insisted upon and adhered to.

The buyer must be prepared to be continually "told" — often, too much

traditions are smoothed to the control of the contr

managed out of use altogether, that work to get the managed out of use altogether. Both buyer and outsourcer must work together on certain lemm. If there is a shortage of skills or labor in your region, this affects both of you. It's beligful to jointly address the problem, whether by changing your technology requirements of the moment of by helping the outsourcer recruit or of by helping the outsourcer recruit or

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It's Leopard
Vs. Vista

FEW WEEKS ago, Apple Computer showed the world the next release of Max OS X, called Leopard. The company spent a lot of time talking about how well the current version of OS X stacks up against the unreleased mext generation of Windows. called

Vista, but the real story is Leonard itself.

Leopard itself.
Although Apple did not unwell every new feature in Leopard, it did give us a glimpse of what computing life will look like in the future. Once again, it appears, that Apple has taken a leap over when Microsoft is of.

fering.
Most of what Apple showed in its Leopard preview doesn't look dramatically different from its Tiger release at this point, but the operating system includes some notable enhancements and changes

that make it stand out

can miner it stans tom. (And, see, there are also some impressive things under the bood, such as the ability to seamleasly run \$27-bit applications along with 64-bit applications along with 64-bit applications along with 64-bit applications with the second control of the second control

Machine feature for backup and recon-

on paper, how when you see
Time Machine in maction,
you begin to understand
how powerful this application is. It's certainly the
coolest software interface
I've seem to a long time.
I've seem to a long time.
I've start in a long time.
I've start in the language

saw a similar reaction.

Backup software is notably hard to work with
and even harder to use for
recovery; that's why most
folks don't bother. Apple
has finally put the onus on
itself to provide and users.

one It was second basiness

ns amany put not omits on itself to provide end users with the tool they need to protect their digital lives. As far as I'm concerned, this one alone is worth the price of admission.

The part few months will be very

interesting. Vista isn't scheduled to ship until Jamuary 2007, and Leopard not until the spring, and it's not fair to make a final judgment until both operating systems are released in final form. In the interim, the market will be taking a close look at how these power presents.

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months ahead crying to win the hearts
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This is an interesting moment in time, one in which Apple has an opoptunity to gain some momentum. Now that its robust hardware can run with a way to the work of the windows as well as Mac OS, Apple has begun to garner significant mind share over the past year. The company seems to be executing well both strate-gically and tacketally, while Microsoft appears to be struggling to get Vista roet the door.

And the interesting thing about mind share is that, over time, it tends to translate directly into market share \$

WAIT OUR OPINION?

O Not columnity and links to archives of previous

## READERS' LETTERS

### Windows Genuine Aggravation

another good reason to look more closely at Mac and Lines ("Delnion: Windows Germane Adventage and Why You Should Be Annoyed," Computerworks com, July 30]. I have never activated the automatic updates on my

the automatic updates on my machines, one mill (M) approach to security has been to use my Mindows XP machine as a limited at user, especially system in connected to the Web, and to user specially system in congrame. Have no inhantion of left updates and the congrame in the web, it might be different of this product, were this propriatio, the or individual to the congrame. They have now to the congrame in the c

Tom Hogan Software consultant, Adanta

PLEASE, DON'T be so hard on Microsoft. It is using WGA

for Windows and the upcoming Office version to squeeze every perey it can from its only profiable software. This is its way of getting more money to throw at its efforts to put its competitors out of business. How else could it pay for all those unportibable areas?

for all those unprofit Willia Pitts Tiscson, Ariz.

ESTERIONY, I purchased my fest copy of a Microsoft open daing system that was not bursted with a system – To Pro SY2. White morematic of registering it critics and tyrung to get security updates. Wild side mit land a prrated copyl Hard to believe, since I opened a new package purchased from a Tier I relate. It If lifely be another 20 years before I buy a Microsoft operating system; but Microsoft operating system; but I

expect to buy pienty of Mac OS X licenses and Linux distributions in the meentime. James Arthur Strokm Austin, introhm@ard.net

W BA, AND XP's activation process in general, is a nutsance, and I hate that Microsoft

musence, and I hate that Microsoft fall that of its the ority way to protect is software from being pirated. But violatimately, it's probably or correct. Propie went everything to be tire. As an MCSE and consultant, it d

Systems analyst, Myrtir Beach, S.C.

Patently Absurd

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M your Jug. 6 story "Inventors Object to New Patent Reform
BF (Computerwantd.com) reflect.

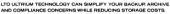
mounterstanding of the patent process. It's certainly true that largess to certainly true that fee more quickly, but they must be able to show that they invented the technology being patented if they certain a cell of center. If they shad someone else's invention and file a patent, their patent is not volid

inventor who exploits an invention commercially without potenting if generally looks to regist to a period. Therefore, the small inventor must plan on patienting early if he wants to obtain potent protection. A clearer patient system would also help reduce the "Deaten tall" practice of filing patients and delaying their publication until someone electrometers.

commercializes the invention William Herdle Briancliff Manor, N.Y.

COMPUTERWORLD welcomes comments from as reciders. Lethers will be edited for brevity and clerity. They should be addressed to Lethers editer. Computerword IP. Dies 9771. 15 open Street, Framingham, Maria S. 17701. Fax: (508) 879-4843. E-mail lethesy@computerword, com. Include en address and planne comments for immediate seedings.





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## TECHNOLOGY

# Mobile Defense Forces The cost of a lost or stolen laptop can be enormous in terms of your company's reputation and its legal liability, but there are tools to keep the machines are PARE 30



#### SECURITY MANAGER'S JOURNAL New Wrinkle in PLM Security Controls

Security Controls
As a new PLM rollout is planned, a new
requirement suddenly crops up. Data will be
shared with outsiders, and Mathias Thurman
wants it all done securely. PAGE 36

#### QUICKSTUDY

UMTS
This third-generation, packet-based broadband technology is designed for the transmission of text, digitized voice, video and multimedia data at rates up to 2Mbit/sec. PAGF 2R



broke ground
on its Lansing
Delta Township automobile
manufacturing
Jant on Jan. 30,
2004, the 2.4 million-square
foot facility bad already bad already bad.

2004, the 2.4 million-squarefoot facility had already been designed, built and equipped — in cyberspace. Before the first showed of earth had been turned at the physical building size, the Detroit automaker created a virtual factory — a complete, 3-D version of the plant and its contents.

plant and its contents.

Architects, controvers, sub-contractors and GMA findities and contractors and GMA findities are controvers and GMA findities and controvers and GMA findities are controvers and controvers and

those buildings, assembled the finished structures, and scheduled the construction.

The new \$1.5 billion facility

which opened in June,
which opened in June,
was completed faster
and with a better safety
record, higher quality
and lower cost than previous projects, says Jack
Hallman, director of capital

Hallman, director of capital projects for General Motors' Worldwide Facilities Group. 3-D "is going to revolutionize how we construct our buildings," he says.

But the technology is really an evolutionary step at GM, which already uses 3-D tools in the design, manufacturing and production of cars. "The architectural engineering side



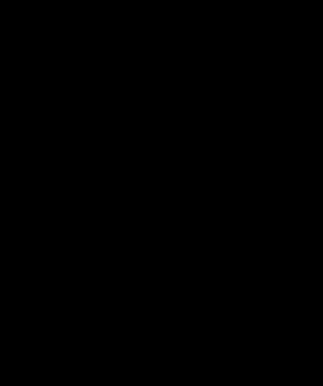
is merging with the process side," says Kirk Gutmann, global information officer for manufacturing and quality. The building has become an extension of the production process, a wrapper into which existing 3-D models of the manufacturing operation can

be inserted.
"These are techniques we've learned in the manufacturing end of the business, and we are applying them to the construction business," Hallman says.
"Our design and manufacturing is now integrated into the same digital pipeline," says CO Ralob Szveenda.

#### Promise of Savings The results exceeded GM's ex-

pectations. The project came in 5% to 8% under budget and 25% abread of schedule. That made it possible to get new vehicles produced at the plant and into the market faster, Hallmann says. And the efficiencies of 3-D design could eventually change the way buildings are designed and built for any business, he adds.

built for any business, he adds.
That said, the architectural
engineering firm, contractors
and GM staffers all report that
the initial learning curve preContinued on now 30



# **TECHNOLOGY**

#### Mobile Defense Forces Mobile Defense Forces lanton - in his engrenous in taptop can be enormous

terror or your company o but them one tools to learn the put there are tools to ke



#### SECURITY MANAGER'S IGHIRMAL New Wrinkle in PI M ew writing in r

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ment the 2.4 million-sanarefoot facility had already been Assistant built and assistant - in exherence Before the first allowed of curtly had been towned at the who is all build counts (a virtual factory - a committee 2.53 committee of the rd and and its countents

Architects, contractors subcontractors and GMs facilities manufacturing and production staffers collaborate Lupfront to Animo no retour stud multi-Invened 3-D model of the LDT common which included aix buildings. They then worked together to iron out conflicts homeon the different building systems and the production process equipment within those buildings, assembled the

finished structures and schoolaled the construction The new St Shillion facility which opened in June.

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buildings are designed and built for any business, he adds. That said, the architectural engineering firm, contractors and GM stations all report that

the initial learning curve pre-Continued on pace 30

## **BUILDING BLOCKS**

GM uses 3-D technology to design and construct new plants more quickly and cheaply. By Robert L. Mitchell

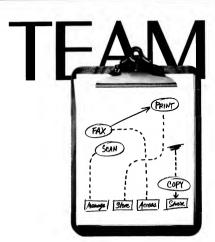
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GM Lansing Manufacturing Plant

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to resed in the manufacturing end of the business, and we are applying them to the construction business." Hallman says Our design and manufacturing is now integrated into the came digital procline "says CIO Ralph Szyrenda



Global companies have teams everywhere. To systems and software put everyone on the same

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XEROX.



Continued from page 27 sented some challenger The 3-D modeling tools

used for building information modeline are as mathematically precise as the mechanical engineering tools GM uses to design and manufacture its nowherts Although &D tools have been around for some time they have only recently manhard to become "needuction worthy," says Robert March vice resident of advanced technology at Ghafari Associates LLC the Dearborn Mich-based architectural rineering firm that led the LDT project. "In the last few years, you've really started to

see this stuff work," be says. The tools have gained acces tance for plant construction in some fields, including the petrochemical and aerospace industries, but have yet to catch on in a big way in the general building trade. The software creates precise engineering drawings of a building and its various elements at scale.

Building systems - electrical, structural, mechanical and so on - are integrated into the model in layers. Instead of looking at separate 2-D drawings and guessing how they fit together, the design team can integrate everything into a sin-

ele 1-D image At GM shore 2-D models were projected 5-D mouers were proposed rus) assessment mom during weekly meetings, Particinants then did "fly-bys," navigating through the virtual building to identify problems The software also sutomatically identified "interferences " such as heating westilation and air as heating, ventilation and an conditioning (HVAC) piping eactions that collided with steel trass work

#### Uncertain Start GM's facilities group first

management challenged it to come un with a way to build the company's next plant 25% faster and at a lower cost than ir had in the past. GM formed a team that included its facilities manufacturing and production on-

erations: Chafari Associator consent contenues Atherici Constructors Inc : and several other contractors and subcontrators. Ghafari created the baseline model using Micro-Station design software from

Rentley Systems Inc An integrated model created using JetStream software from NavieWorks I td performed automated interference detection. Participants could check out. edit and check in layers of the model for which they were remoneible and size them within the overall reference model.

While Chafari created the basic building framework. contractors were responsible for updating and uploading into the model the com they were designing, fabricating and installing - from structural steel to electrical

and HVAC systems.

For example, Alberici took the basic model for the steel structure and added the detail necessary for fabrication, right down to individual plates and bolts, and then fed it back into the NavisWorks model. The idea was to resolve conflicts in the model rather than in the field, where change orders can add 10% to 15% to a project's cost. Aberici could then download the final data to its cutting machines and use it to automati-

CM --- 1 --- ---were electrical at first The construction trade is slow to change says Paul Lember say nior vice president and general manager at Livonia Mich .. hand Alberici "We use a lot of the same techniques that they used to build the myramids " he same only helf inhim adding that it took the indus try nearly 20 years to totally accept computer-aided design systems. Alberici had used LD tools before, but "we were a

little skentical about using intie skeptical about using Hallman's secure use into resistance when it tried to eliminate printed 2-D drawings in the design process; all work was to be done within the 3-D model. While the reference model could be viewed on a lanton, and relevant parts amild be absolved out for our sions, people on both sides sions, people on our and "This was a new methodol. one for us, as well as the subs and partners we were dealing

with " says Ki Hammer, presi dent and CFO of Ghafari, \*Peonie were not comfortable fwith) not using shop drawings." "Ghafari had to do 10 000 drawings because one of our engineers didn't trust the model " Hallman rays That

process was complicated by difficulties GM experienced notting the MicroStation soft. ware to generate 2-D drawing from the 3-D model, "We had to debug the software. That's one of the ressons for the lack of confidence," Hallman says. adding that Bentley worked with GM to fix the problem.

The engineer eventually did out his 2-D drawings but soon found that by the time he could mark up paper, others had already addressed the same issues within the live model. As the staff got used to 3-D, 2-D drawines were eliminated.

File compatibility was another sticking point. Since industry standards for file formats are still evolving, GM initially required each party to use Bentley products to do its work. But Alberici had already created 3-D designs using a Tekla Corp. product called Tekla Structures that worked



with its steel fabrication equipment, says Lemley, Using Bentley's software amounted to extra work for contractors, some of whom had their own, preferred 3-D tools

preferred 3-D tools.
Meanwhile, GN's manufacturing engineering group used.
AutoDesk Inc's AutoCAD and FactoryCAD. GM has since changed its policy: "As long work of the changed its policy in a changed to offend and resolved more than 10,000 interferences." That plant must have changed to offengrations 50

nailed down," says Gutmann.
Some issues, such as a piperunning through a steel support, were obvious. Others
were more subtle, such as
structures that interfered with
the production group's plant
processes or equipment.

processes or equipment.

At one point, for example, a
transfer point between conveyors was positioned over a building pressure joint. "You can't
just put a precision piece of
equipment on top of an expansion joint," because it expands
and contract. Halliman surs.

# Accurate Model

Once the design was complete, contractors were told to build to the model. Those that failed to route electrical conduit, plumbing or other systems as dictated in the model were reouined to redo their work



at their own expense.

"When we first started, we were all a little nervous about doing that," Hallman acknowledges, but GM stuck to its

he very accurate. "There were very few cases where anybody said, "We both roated to the model, and it's just soo tight a space to do it." he says. With virtually all interferences eliminated, GM's costs dropped. Lemley conservatively estimates the savings from fixine collisions in the

virtual model at one-tenth the cost of making such changes in the field. Each change can easily run \$50,000 or more, and some would have cost \$500,000, he says. Because collisions in 2-D

Because collisions in 2-D projects are unavoidable, tradespeople try to get their work done first. Lemley says When a collision occurs, everything stops while the drawings are reviewed. "You go through hundreds of drawings, and you call the archi-

tect, and they have to come down and bring a mechanical drawing! down, he says. That pats everyone else behind and results in expensive change orders. Building to the model eliminated the problem. Better sequencing of work resulted in less congestion at the work site; improving safety. Meanwhile, the ability to precut and preconfigure piping, ductwork and other construction mosterials allowed for struction mosterials allowed for

als, reducing the space needed for on-site storage.

"We could download a particular fitting directly into our fabrication equipment, cut it, fabricate it and set it into the field just in time to do the installation," says Dick Cramer, chairman of Holly Mich-based Dec Cramer Inc, which handled the HVAC work. The practice also drastically reduced onsite waste, Hallman says.

site waste, Hallman says.

The efficiencies created
by building to the model also
benefited the contractors, who
could fabricate materials using
cheaper, in-house labor rather
than doing the work on-site.

"We experienced no mode"

says Cramer. The project, which was slated to take 13 months to complete, was finished in nine and a half months. Before the LDT pilot project was finished, GM was already using 3-D technology to construct a 442,000 square-foot addition at its Plint Pinology.

South plant and has nearly completed several others since esses, it has seen additional savings, Hallman says. For example, total savings for the Flint project were in the 10% to 15% range, nearly double the savings achieved in the LDT project, and the job was done 27% ahead of schedule.

27% ahead of schedule.

Now GM is working with
Ghafari to move to a 4-D model, which includes time — in
the form of a scheduling component — as the fourth dimension. Currently, scheduling is

handled by an external tool.

The 4-D approach should astomate the process of optimising the construction timeline and the scheduling of contractors and subcontractors. The tools for 4-D are still evolving, says Mauck, but he adds that "often, it is more about methodology than technology." Eventually, Hallman would

odology than technology."
Eventually, Hallman would
like to move to what be calls
5-D design, adding cost into
the model. As materials were
pulled from an object library,
the cost implications of each
decision would become immediately apparent.

That's more difficult stars

Mauck. "Bill of materials can be extracted from the model for certain trades now," he says. "However, there are intangibles — market conditions, bidding environment ... that affect cost estimating, by model can anticipate that." For now, GM will squeece as much efficiency as it can from the 3-D process. Says Manck, "We're just scratching the surfers of the minor of 3-73."

ISABELLE MADE LINUX DESKTOP-FRIENDLY



# EVI AMONT WOOL

Theft and loss of laptops is a growing m as the workforce becomes hile. Available technoloong with best practices to ecure hardware and the data on it.

nave and most fellowed the dramatic headlines in May as the U.S. Department of Veterans Affaire came to erine with the feet the it had lost a laptop (that has

since been recovered) with personal information on 26.5 million veterans

and active-duty soldiers, potentially exposing them to identity theft Since then, you might have owelooked the missing New York state

government laptop with 540,000 names. Or the Federal Trade Commission laptops with 110 names. Or the Frnet & Young Global Ltd. laptop with 243 000 names Or the YMCA of Greater Providence, R.L. laptop with 68,000 names. Or the Equifax Inc. laptop with 2,900 names. Or the ING Groep NV laptop with 13,000 names.
Or the Internal Revenue Service laptop with 291 names. Or the Ahold USA Inc. laptop with an undisclosed number of names.

And those were just some cases that surfaced in June. Yet technology is available that would allow the words loptop and

security to be spoken in the same breath without triesering sales of cynical The 2005 Computer laughter, Securing

laptops generally depends on either Internet tracking, 'kill switches" or encryption - or, more commonly, a combination

of the three. Absolute Software

Corn. offers a service

called Computrace, through which caned Computrace, chrodge with an Internet server once a day If a

muchine is reported stolen, it will be sold to start checking in mary 15 min. and to start the carry is someone to the secure emplaine I es lickling marketing manager at the Vancouver British Catanatic based on the Value and our databases see ID address will be matched to a street address. The next mancaeu to a street address. The next knock on that door may be the police arriving to recover the marhine Thomas Schuetz, president of MDx

Medical Management Inc., a consultlas from in Window NV signed up for the Computrace service in Increase Two months later, his own

laptop went missing "I sent the Computrace people a cons of the police report, but the ma-

copy of the ponce report, but the mauntil the end of March, from a location in Florida " Schools and "The most ery team contacted me in early April. They had tracked it to Yonkers and then to describe Manhottan where it settled into one IP address a percon't home. They were able to watch what was being done with the lanton and asked me if I know that person They offered to crase the hard disk remostely but I would have had to reconstruct certain things, so I said no." After the lanton was spized

Schuetz went to the precipet headquarters to pick it up, and everything was intact, be says. The person from whom the lapton was recovered now faces charges of possessing stolen

"The service would be worth twice what it costs us, and we recommend to our doctor clients that they get this

service," he says. By special arrangement, links to Computrace are contained in the BIOS chips of Hewlett-Packard, Gate way, Lenovo Group, Dell and Fujitsu laptops so that even reinstalling the operating system will not stop the

machines from reporting in, Jickling says. Pricing for the full Computrace service starts at \$128.95 per unit for three years. A consumer version called Lolack for Laptops, is priced at \$49.99 for one year.

Meanwhile, Cyber-Annel Security Solutio Inc. in Nashville offers a combination of encryption and tracking. The CyberAngel system cre-

ates an encrypted partition on the hard drive,

maps of the background "We got the Cuber Angel service when we first started eatting lantons when we first started getting lapte two years ago and have needed a administrator at Donales County Hos

nital in Alexandria Minn Tohnson case she chose the cervice because she liked the encryption it offered and the likelihood that a third months and he among of it. Also the price reamed right - \$62.60 per three year license for organizations buying

coverage for 100 to 500 devices It took about eix maaks before the



tion, are the weapons of choice of Clara Calif When a machine using Cara, Calif. When a machine using service connects with the server after is has been reported stolen, the cenvice begins erasing presclected files. overwriting them multiple times to preclude file recovery, says Jeff Rubin. Beachbead's vice president of market. ing. Lost Data Destruction can also

trioner other stunts to make the stolen machine unusable such as eternally rehooting it. Machines with the service periodically on through a checklist, noting things such as whether they have been booted up using legitimate access con-

trois If they haven't they can launch procedures in order to the art illicit use Rubin says C, Kubus says. Single-user priving is \$129 a year "Tracking is a great idea if you are

scerned about the hardware, but a \$1.500 lantop is no big deal compared to the damaged regutation that could result from a breach " says Cores Jenrich, IT manager at Commu-nity Bank in Pasadena Calif He uses Beachhead's product for his bank's 80 chines. He has never had one stolen and so has never used the kill switch In the meantime, Jenrich uses the automated encryption facilities that the Beachbead software also offers.

"We could have just rolled out the Encrypting File System on Windows XP, but we thought it put too much reli-

ance on the end user to put the right files in an encrypted folder, and if the lanton sets into the wild I can't prove that a given file was encrypted," he says. With Beachhead, all files with user energiand extensions will be oncrypted. Jenrich also says he likes the way the software can delete files and close down the computer even if it

never connects online again. We've consend " he saws "It would he most it if it out four times or much We like it for the control it gives us over the end-seer environment extending to situations when the machine is not in our observal control."

And being covered is the main reason more companies are adopting some form of encryption as well as tracking says Fric Maiwald an analyst at Burton Group in Midvale. Utah. More laws, such as

California's SR 1386, are remiring portfication of victims if a company suffers a breach of unencrypted personal data "They want that encryption 'get out

of jail free' card." Maiwald says. "Encryption products have been around since the 1000s but how not onen much adoption outside the government and financial institutions. But now, with the notification laws, we are seeing much larger deployments." He adds that there are dozens of products that fall into either the file encryption or whole-disk encryption categories.

But Maiwald advises against depending on the encryption tools built directly into some applications such as Microsoft Word. "There are a lot of perams out there the will



in Con Autonio





# **Got Questions About Application Performance?**

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Today's hysinesses are challenged in delivering both performance applications. Whether it's system complanty marrowing the human to enghine rapid change and collaboration or discovering problems too late to effectively fix them, the hurdles are daunting for those leading today's application deglowment.

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# Ahead of the Curve: Optimizing Application and Business Performance

Introduction and Overview

ROOme to ROOme Designation and Materialian Smalfoot

Julia King Executive Editor Events and National Correspondent

Market Overview and Trende Michael Hugos, Computerworld Columnist, Former CIO and Author of Essentials of Supply Chain Management and Building the Real

Time Enterprise: An Executive Briefing

9:20am to 10:00am Application Performance at NYISO: An End User Case Study Linda Zafonte, Director of Business Solution Development, NYISO

10:00am to 10:15am | Defrachment and Metworking Break

10:15am to 10:50am Application Performance Assurance Case Studies: It Pays to Be Predictable Elizabeth Maly, Vice President, Application Performance Solutions. Compuware

10-50em to 11-25em Application Performance at the University of Rochester: An End User Case Study

John Barden, Director of Administrative Computing, University of Rochester

11:25am to Noon Penel Discussion Moderator: Julia King, Executive Editor, Events and National Correspondent.

Panelists: John Barden, Director of Administrative Computing, University of Rochester Linda Zafonte Director of Business Solution Development NYISO; Michael Hugos, Computerworld Columnist, Former CIO and Author of Essentials of Supply Chain Management and Building the Real Time Enterprise: An Executive Briefing

A sampling of the Computerworld.com hoge turns up opinions on security, schools, technology addiction and more. The goal is to present an array of lively, thoughtful writing that's prevenance mounts in comba a recomment from made

# Linux on the Desktop – Will It Happen at Last?

There have been prophecies for years that Linux is going to be the widely used alternative to Windows on the decidenty. The problem is that it has all-ways been no complicated to get working. The problem is that it has all-ways been no complicated to get working. The problem is the result to the testing the problem is the result to the hast always been the domain of the ultraged who loves to fingure out how things work and loves knowing things that make most people! eyes cross. He was the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem in the problem is the problem in the problem

# Check Your SNMP Security

Here's a good axiom to follow: By default, no device or system on your network is eccure. What do I mean by this? I mean, when you first plug in and turn on a device—just about any networked device—just about any networked device—you must do work to secure it, since the default settings are almost always not secure. This goes for interesting a relation of the property of the secure it. Since the default settings are

desktops, servers and networked storage devices.

O www.computerworld.com/blogs/

# So Much for Straightforward

Backup Engineering
The always had the point of view that backup is a necessary evil. Backing up your data isn't something fun to do.

have to (you like your job, you might nave to (you like your job, you might nave do smarkhing back, or somebody else might need something boch. But the marketplace has changed a lot to give you real options.

It used to be the case that you hammered away at your backup in the same painful way, regardless of the tool set because when the painful way, regardless of the tool set.

product or another — but give me a break. Was there really any substantial difference between an ArcServe and a NetBackup? • www.somputerworld.com/blogs/

# Bl: The Lesson Some

Come schools are now using analys. Some schools are now using aways: Loc and business intelligence to track et idente' performance. It's such a creat idea One of the problems with more schools is the time between when a standardized test is given and when the results come back. In the case of my daughter's school the results of the my daughter's school, the results of the the first day of school this year. It was a need one opened. But what would have been for more beloful would be if the peculty more positable within a few days or a week of the test being taken. Then I would have known what to work on with my daughter over the summer. er over the status

### node/2326

# MARTIN MOKEAY Some Security Steps You Should Already Be Taking

Loudit help but laugh a little when I couldn't help but laugh a little when I couldn't help but laugh can so the salver from Syman apossible vulnerability in Internet Explorer. Little gens like "Run all onforware as a nonprivileged user with minimal access rights" or "Do not followed as a nonprivileged user with minimal access rights" or "Do not followed as the salver and the sa

### right now, are you? I hope not, since you're surfing the Net. O www.computurworld.com/blogs/

# Addicted to Technology?

Technology is great as mell, porrectionlogy is great as mell, porposed in the property of the property of the ability to be made upon the made upon the ability of the three may be a price to pay. Workers are becoming addicted to three devices and, as a result, could end up using their employers for their information addiction. To much of anything is simply no good, Humans seem vulnerable to this type of behavior, and this was evidenced even behavior, and this was evidenced even behavior, and this of the PC Back in the PC, millions

entermental com Al

# O www.com

# CAREER FORUM Layoffs Lead to Uneasy Questions

If you've been laid off, paying the bills may be an initial and continuing challenge, but maintaining enough confidence and self-esteem to load the next position can be even more difficult. If you find another position, will it be as good as the last? Can you maintain your standard of living! Are you anything the position in the same professional the level is it in the same profession at all

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SECURITY LOG

# New Wrinkle in PLM Security Controls

Unexpectedly, data must be accessible by some partners, and our manager wants it all done securely. By Mathias Thurman

UR PRODUCT lifecycle management (PLM) implementation has a number of security considerations, and I've been providing input on the security best practices that I think should be included when this application is rolled out. The PLM application will

this application is rolled out.

The PLM application will become the repository for a lot of sensitive data. such as source code and design specifical SECURITY

and design specureations, that's housed in various legacy applications. Those applications predate my arrival at the

company, and they are lacking in several areas related to security. I want to be sure we start out on the right foot with this new application as part of my efforts to better protect the company's intellectual

property.
It hasn't always been easy,
though, and I don't imagine
that I am very well liked
among the members of the

PLM team. Just this week, a new requirement for the PLM application came to my attention that was a bit alarming. But let me review the history of this project before I get to the latest wrinkle.

the latest writable.

About four months ago, I met with the PLM team. Our first decision was to assign the data that will reside in the PLM application one of two classifications that are consistent with the company's data classification model: Confidential, and

Confidential Special Handling.
As things went along, I was expected to provide my security requirements. I was very specific while trying to be rea-

sonable. I didn't ask for things that went beyond the scope of the project, were too expensive to implement or, like identity management, didn't fit in with the company's current

security model.

I required that each user
have a unique ID on the system — no more sharing of credentials, as has always been

unique ID on the sysno more sharing of creits, as has always been the case with our legacy applications. I want everything that happens in the PLM application and to the data

audited: checkout, check-in. log-on, log-off and the granting of administrative privileges. We have to be able to document these things so we can properly investigate any theft of intellectual property. Our current systems

don't provide this essential information, so our investigations have been stymied. I also demanded that we apply the rule of least privilege so that users will have authorrization to do only the things they need to do to accomplish their jobs. Our legacy applications lack this, and since data-

reaction to ao only the timings they need to do to accomplish their jobs. Our legacy applications lack this, and since data isn's segmented by authorization level, anyone with an account can gain access to data that's classified as Confidential Special Handling.

I also wanted to deploy Secure Sockets Layer between

the clients and the Web serves but the business decided not to implement SSL crafted an email laying out the risks inlease like this I crafted an e-mail laying out the risks inherent in rejecting the SSL deployment, and then I had the program mamager sign off on this risk accountability and acceptance document. In the codd, from the state of the Cod. New aboutd surveyed and Cod. New aboutd surveyed and commented with the state of the the

SSL, I have documentation showing that I identified the threat but was overruled on the mitigation.

That's where things stood until this week, when I met with the IT project coordinator for the PLM application. He had a new and rather alarming requirement: People outside the company, mainly suppliers, should be granted access to certain documents that are classified a Confidential Spe-

There's a legitimate basiness need to do this, but it means that we have to go back to our legal department and run an additional classification by them. Certainly, the application countrols will have to remain the same, especially in regard to logging the check-in and checkout of

documents. But this new requirement raises another issue entirely. How do we get these very large documents to the external entiries? For this, I will be looking at implementing an enterprise FTP server. We currently have an old Linux server entiting in our DMZ that runs an FTP daemon. Employees

files from our company — but only files that don't contain only hier that don't comes main reason we provide for main reason we provide an some companies we do busi some companies we do by a mail and about the state of received VTD know the ware lame floor that would be be sent from being blocked by restrictive e-mail server settings. (An alternative is to burn the file cents a CD or some other external media and ship it. but sometimes that takes too

our sometim But this public FTP server has no encryption no pobust access control and no method for properly segmenting data so I'll be calling some ven-Aces within the next counter of weeks to find a Web-based FTP environment that will allow means through their Web becomes to les este es environment within our DMZ and neovide condentials that will identify them by their relationship to our company and then compartmentalize them based on that identity The last thing we want is to commingle data or reveal

to commingle data or reveal the identities of suppliers, partners and customers to one another. The uploading and downloading of fales will be done through a Web browner, bypossing the need for a special FTP elient or for the user to issue FTP commands. I'll also be looking at ensuring that this infrastructure energy to the second of th

In the future, I'll mandate the use of digital rights management to further procect sensitive intellectual property. In fact, that mandate may be issued sooner rather than later, since we're rekindling a DRM project that was cut last year because of a lack of funds. P

WHAT DO YOU THINK?

This work's pourrel is written by a real security mercept. "Mathies Thurrism," whose name and employed have been dragulated for obvious resecut. Contintion at markine, flummanifyshop com, or join the discussions in our security blogs, computate work! Lessify blogs, becaming lot find a complete sections of our Society.

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# **UMTS**

### DEFINITION

Unharred Mobile Telecommunications System is a third-generation, packetbased broadband technology designed as a successor to GSM cel-Jular telephony Popular in Furone and currently operating in more than 25 countries. UMTS is designed for the transmission of text digitized voice video and multimedia data at rates un to 2Mbit/sec

TOP EFFECTIVE officient communications standardization is critical and nowhere is this more orident then in the store of mobile computing and celhalar telephony make use of a removable

If you need data access or e-mail through your cell phone, you're likely to be using one of two different technologies. In the U.S. the main annexach

for write communics tions is called Code Ditions is carne con. (CDMA), and it is the basis for the major network services offered by Verizon Wireless and Sprint Nextel Corn.

ne others In Europe and most of the rest of the world, however. a wery different technology called Global System for Mohile Communications has nated the market, GSM uses a Time Division Multiple Access approach to frame structure, GSM service is available in the U.S. primarily ough T-Mobile USA Inc. and Cingular Wireless LLC These carriers maintain GSM networks that are distinct om (though connected to)

their other digital networks.

Both CDM 4 and CGM are second-preseration (2G) technologies and they have onexisted for several years. Each technology has its supporters. CDMA phones are engineered specifically for an individual carrier, whereas GSM phones

memory card called the Subscriber Identity Module (SIM). Physically smaller than a secure digital flash memory card o SIM card contains all the key information required to activate

a phone, including the user's one number, personal identification number, address book and encoded network identification details. A user can easily move a SIM from one phone to another

Though GSM phones are interoperable with one and different countries use different parts of the frequency spectrum, so "world phones" typically must be capable of using several frequencies.

Today, the fastest-growing of cellular networks is for the transmission of all kinds of data and rich media, including Web sites, video, music, es, and maps and driving directions. The older 2C networks simply couldn't handle works samply coustin t man that walcome of traffic, and that votume of trame, and they commit oner the speed files. The answer was to make the corvices faster and build out the networks to deal with man to ff

Here too the CDMA and CSM noths continued their com pacing continued their comment CDMA brought or CDM 4 2000 and InPTT networks. The most recent developments on by Europetics Data Optimized, or FV-DO. and by Evolution Data/Voice on FV DM

Similarly GSM been Gen. and Backet Radio Service or GPRS which begat enhanced data rates for CSM evolution on ETYCE ETYCE man downl oned to enable the transm sion of large amounts of data at a high speed. 384Khit/see The latest measuration is called Widehand Code Division Multiple Access (MCDMA)

And this finally brings us to Universal Mobile Telecommu nications System The International Telecommunication Union (ITI) a specialized aerocy of the Hoited Nations has attempted to coordinate these competine technologies to improve throughout and increase

interoperability. The International Mobile Telecommunications 2000 standard is a third-generation digital communications specification from the FTU And the European (i.e., GSM-hosed) mentation of IMT-2000 is UMTS which is board on

WCDMA. Previous cellular telephone data systems were mostly circuit-switched. requiring a dedicated con nection. WCDMA is packetswitched, using the Internet Destored The first commercial WCDMA network was

launched in Japan in 2001. **Technical Details** TIMTS has been specified as

an integrated application for mobile voice and data systems with wide-area coverage. Using globally harmonized spectrum in paired and unpaired bands, early implementations of UMTS offer theoretical hit

man of me an amarchia to a for situations where the mobile desire is estuable modes The current and is to which Whitefree when both ends of atentino sec. when both casas temporarily) stationary HMTS operates on radio

frequencies identified by the TTI IMT 2000 empification decimentary the second erstore urine a S.M.Unavida channel that simplifies dealers ment for network providers that have been expeted been continuous blocks of spectrum Most UMTS systems use ferromain between 1 686

and 2 025 Mar-LIMTS assisses assessed carrier frequencies to incoma process called frequency division duplexing (FTID) For symmetric traffic, such as ravoussy videonhoose FDD is highly officient allowing unlink and download data rates to be equal, in contrast

to technologies such as Asym metric Digital Subscriber Line service, which typically offers unload rates that are much clower than its download rates. FDD reduces interfer

ence and wastes no bandwidth in exitching from respensiving to exertising

Ontoing work within the 2nd Concession Bostoombin Project promises incressed throughput speeds over the throughput speeds over the throughput speeds over the work High-Speed Dogglink Packet Access and High-Sound Holink Packet Acress technolonies are elseady standardized ogics are anneally scanning in Asia and North America see continue them the cont network trials. With theoreti cal download encode as bish as 14 4Mbit/sec and unlink eneeds of up to \$ 8Mbit /eac these technologies will make it possible for LIMTS to offer data transmission speeds com narable to those of bard-wired Ethernet-based networks 8

Kou is a Computerworld contributing writer in Wornster Mass You can contact him at nuerkow@charter net

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# **Geeks**

# A STROLL THROUGH THE TECHNOLOGY LANDSCAPE

# Nematodes, Fruit Flies Lead Way To Cybernose

SCIFILITISTS IN AUSTRALIA AV Invocto mendana a new offertow analysis tool called the

Charace Bassachers in a collaboratus childer inmed by the Australian National University, Monash Linuersity and the Commonwealth Scientific and Industrial Research Consequences (CSIRO) Food Futures National Research Flagship are treng to

mediants reasonal research reagainst are trying to

The microscopic permatorie worm will be central to the Cybernose research because of its hobis sensitive molecular recognition system. which allows it to sense smell and flavor qualities in manes. The Cubernose will involve putting sonsor mentains from inserts and nematodes into an electronic nose to replace the current generation of electronic sensors, which are not discontinual

ing enough The Cohemose may eventually be used across the food and beverage industries, and in the long term, the technology could be developed to enhance Australia's hinsecurity by detection and

miercepting pests and diseases Corni Werr a researcher at Monash University. case the collaborative initiative is an exciting on northerny "It is breview together Australian offaction researchers using very different accordiction to solve a common problem. How do animals

detect and discreminate odors?" Warr says. According to Warr, participation in the Flagship cluster has enabled her to bring to Australia one of the foremost insect offactory electrophysioloasts. Marien de Bruvne, thus enabling her group to study adorant receptor function in the fruit By



describés in potinte now ways "The information we generate about how these

recentors function will describ benefit CSRO's. development of offectory brosensors," Warr seas. Afficient the applications could be numerover the process include working with the wine

"The Determose will draw on how the brains of simple organisms such as insects and tiny nema tode worms process information about smalls and tell the difference between related odors," says Stephen Trouvel the Flanship thems leader "By 2013, we aim to have in winenes around Australia a Cybernose that will enable the wine industry to objectively measure aroma and flavor - a more reliable measure than chewing some grapes. This well enable were makers to nick mapes at the time of optimum ripeness and even to tailor the style of wine precisely and so improve its value. This has the potential to contribute \$750 million annually

to the industry."

# GROVES OF ACADEME



# DIFFERENCE ENGINES

Fortran Forey



PAGE COMPILED BY TOWNY PETERSON.



**TECHNOLOGY** 

A STROLL THROUGH THE TECHNOLOGY LANDSCAPE

# Nematodes, Fruit Flies Lead Way To Cybernose

SCHOOLS IN AUSTRALIA are Invited to ndure a new olfactory analysis tool called the

Researchers in a collaborative cluster forms by the Australian National University, Monash University and the Commonwealth Scientific and Industrial Research Organisation's (CSRO) Food Futures National Research Plagship are trying to 

The inscreecepic nematode worm will be central to the Cybernose research because of its tightly sensitive molecular recognition system, which allows it to sense smell and flavor qualities in crooses. The Cubernose will involve million senser graphs, the Cyberrese was prove passing our yer nose to moisce the current generation of electronic sensors, which are not discriminat-

The Cybernose may eventually be used across the food and beverage industries, and in the long term, the technology could be developed to enhance Australia's biosecurity by detecting and

cepting pests and discuses. Coral War, a researcher at Monach University says the collaborative initiative is an exciting opportunity. "It is bringing together Australian offsc-tion researchers using very different approaches to solve a common problem: How do animals, detect and discriminate odors?" Warr says. According to Werr, perficipation in the Fleaship

cluster has enabled her to bring to Australia one of the foremost insect offsciory electrophysiolo-gists, Marien de Bruyne, thus enabling her group to study edurant receptor function in the fruit By



The information we generate about how the receptors function will directly benefit CSRO's development of offsctory bosensors." Wair says.

Although the applications could be numerous, the group is initially working with the wine

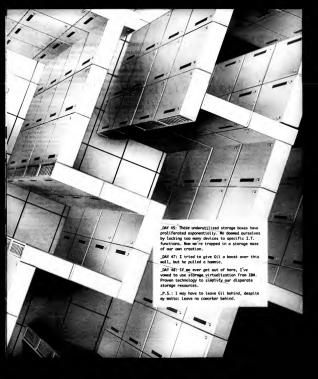
The Cohemosa will draw on how the brains of simple oppositors, such as practs and liny name tode worms process information about smells and tell the difference between related odors," says Stephen Trowell, the Flagship thome leader. "By 2013, we aim to have in wineries around Australia a Cybernose that will enable the wire industry to objectively measure aroms and flavor - a more miletie measure than chewing some grapes. The will enable winemakers to pick grapes at the time of optimum ripeness and even to tailor the style of wine precisely and so improve its value. This has the potential to contribute \$750 million armuelly

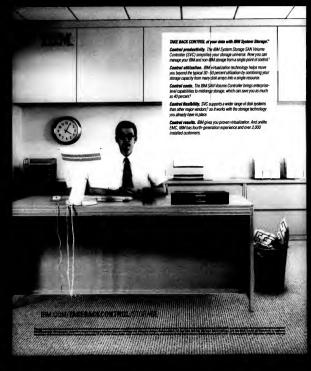












# **BRIFFS**

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CUPT A MONASH

# Data Mining Ready For a Comeback

OTWITHSTANDING all the emphasis I've put on text data in my past two columns enterprises also run on numbers Yet companies are typically staffed by humane and most humans are computat ill at ease with more advanced forms of mathematics. As a result most of what passes for quantitative analysis in

organizations is nainfully. often misleadingly, simple. a few excentions to that rule including the following: Data mining/knowleduc discovery which sets. edge discovery, which actu Predictive analytics.

which overlaps heavily with data mining Forecasting, which is concretely recorded as sensrate from data mining, even though they both rely on related statistical techniques. Ontimization, which generally refers.

to the use of operations research tech-niques that contain a specific concept of

How sophisticated you need to be about these techniques depends in large part on your industry segment, unit sales (if spolicable) and the size of your orion. Many orga large suites of products from SAS. Others try to soueak by using just Micros Project and Excel. But no matter what tools you use, the basic story remains t same — enterprises have a lot of quan-

titative and/or objective data, and if you sourceze that data hard enough, some thing valuable will probably pop out. Perhaps the most controversial of these disciplines is data mining. It has al-

ready gone through a classic boom/hype phase, complete with breathless busi ness press coverage and widely repeated myths (no, Virginia, there never was a retailer that boosted sales by placing beer next to dianers). As part of that phase mediocre products were half-heartedly sold by various business intelligence



generalists, with predictably disappointing results. And seem to have set in Even so lama companies data-mine terry profitably, in a broad range of industries, and for a broad range of purposes. And considerable innovation is still moving data mining technology forward. For example, both SAS and Oracle are pushing ease-of-use are pushing ease-or-use errotories but with rother different emphases. (Care

to guess which of the two

is more database-centric?) When wendors sell analytic applications that contain a good deal of statistical analysis, it's reasonable to say that data mining is involved. Text mining continues to boom. And product sectors such as Web search and antispam rely on data mining for large fractions of their overall research and development.

Many of today's data mining app tions can be united under the rubric of omer-offer targeting. This plays a huge role in telecommunications and in travel/leisure/gaming and is important in industries such as traditional retailing catalog retailing, online retailing, higher education (recruitment) and no fundraising. Specific areas of application include promotions/campaign targeting. churn prevention, loan loss prevention. price setting. Web site analysis and, of course antifroud CRM applications that don't fall neatly under this rubric include text-mining apps such as repu-

tation management or just sentiment tracking. Another major area for data mining is national security, antifraud and crime

presention. Antiferral actually quarter strength with material actuary over ine Asterminine whether you want a namicular outtomer's business at all But shows's also a log of data mining in ferreting out specific fraudulent claims Compliance-related anticrime initiatives are important too of course whether for the namention of money landering or own for testing to determine Sarbanes-Ovley Act compliance Intelligence passoirs and crime/terrorism fighters in powersment use similar techniques and even come of the came data or found fighteen Retail loss prevention follows similar patterns. Some of these areas quarter a little with purer portfolio/risk management a sector whose applications include insurance risk or various kinds of hedge fund investment

One of the oldest set fortest-mouring areas for data mining is defect tracking W. Edwards Daming famously incourted early methods, but little happened in the way of increased conhistication for multiple decades. That has now changed. The TREAD (Transportation Recall Enhancement, Accountability and Documentation) Act has compelled automo hile manufacturers to scour warranty records and other data for evidence of product defects (this is one of the hig drivers of text mining). Other vehicle and electronics manufacturers have fol lound suit. Drue makers have responded

to similar compliance burdens. The most important application area of all for data mining may be health care and scientific research. Genomic data. clinical records and medical articles themselves are all mined, Indeed, pretty sophisticated techniques are used, such as text mining and network link analysis. Data mining also contributes to a broad variety of other technical disciplines. from astrophysics to water quality

research For more of my thoughts on this subject, see www.monashrenort.com/ 2006/09/02/further-information-ondata-mining #

### AUT OUR OPINION?



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# **MANAGEMENT**

IT MENTOR
Finessing On-demand
Software Deals
Two attnmeys highlight the key risks
in software as a service — and how
you can might the them PARE 82

WHO'S WHO IN IT

Greasing the Skids

Business analyst Shelley Codly sees
herself as a translator helping to
smooth the friction between IT
and business users. PAGE #4



OPINION
Budget Busters Are Looming
You may have wrestled compliance to a
draw, but don't relax yet, says Bart Perkins.
He sees a lineup of big-ticket expenses
shoul for IT department. BMS EM.

# STEPPING

Moving to the top IT spot in your company can be tricky.

Here's how five recently promoted CIOs handled the transition.

CHRY MATULETT has bod bis serves me the top IT spot for years. He wanted the job, he says, "for the span of influence I can have. The span of the span of influence I can have. The span of the span o

other senior-level jobs, says Bartlett,
who was promnted last year from vice
president of application development
and quality assurance to IOO at
TD Ameritrade Holding Corp.
in Omaha.
Getting to the CIO post

in Omaha.

Getting to the CIO post requires years of hard work, but that's only the beginning. As Kevin L. Shearan, CIO at Mellon Financial Corp., puts it, "I was a supporting lieutenant. Now

"I was a supporting lieutenant.
I'm the accountable exec."
But while most new CIOs are

esportly and Definitably could be growth plan. It propare to a see part, the QIO postero law.

seady for increased responsibility and ready for increased responsibility an recovered for the transition from their ald lake to the role of chief information officer Several CIOs promoted in the omcer. Several Citys promoted in the move into the too soot gracefully.

But Mindrell mound up from his job as senior director of strategic business anabute and etrateric business implementation to group vice president of operations and CIO at GTSI Commisses as the Chantilly, Va.-based company en

Africabell went to work immediately Us not un meetings with managers. He set up meetings with managers, their views on IT the FRP periors and

what he should do next He developed a plan detailing key ic. me bishlighting top priorities and acknowledging the next IS or so concerns. And he took actions that had immediate paybacks. For example, during the first 90 Asses of the FRP implementation, IT had a constant backlog of 300 urgent rickets - that is, requests for service on problems an critical that they should have been addescend within 24 hours. To allevine the situation, he ramped up the group han-

dline those tickets from five people to II Rack Your Visions With Action Newly promoted CIOs say it's essential to take charge and establish your own vision for your IT department within the first few months of taking the roins. But that's not enough; they say it's equally crucial to back your vision with actions

In March, Puncet Bhasin moved from senior vice president of global technology at Maynard, Mass,-based Monster Worldwide Inc. to CIO for North America Part of his vision for his IT department is a high level of service to

that get noticed

So in advance of a major software

release this summer, he initiated conversations with other Monster executives about how the release would proceed, giving them candid details about when it would happen, what problems were expected and how they would be handled. After the release he solicited their feedback about the process and the

new seedication to learn from the experience. "Your actions speak for themselves," Bhasin says. "It's practicing what you preach."

But Mitchell cautions against doing too much too fast. "If you're going to be a leader, overly exerting your new position is not the way," he says. "Some people feel such an angst around those first 90 days that they jump to conclusions."

He advises against issuing edicts as a way to show strength. "In no way (should you) go in and declare.

In no way [should voul go in and declare 'This is the way it's going to be.

Rob Mitchell CIO GTSI Com



I was a supporting lieutenant now I'm the account-

able exec. Kevin L. Shearan, CIO. Mellon Financial Com

If I have people with ... expertise and there's a trust between us, that makes for a stronger organization all together.

Read II. Friedman, CIO. Burlington Coat Factory Warehouse Com

is the march out more when cut of is that people get more value out of an in-ocpts discussion with an excourie than a drie overview, he expeating about the 11 depart

ment now has regular in depth re-Character also resistant his mansoment team and their duties, ening council levels does It was useful ing several levels deep. It was use ployee goal-setting, he says. es amone his direct reports, but he

did being in fresh blood at the next level. "The perspective was, 'Is this my team and will they be supportmy team, and the control

### Occasion Contraction

Brad H. Priedman, who this servine mound from vice president of IT to CIO at Burlington, N.L-based Burlineton Cost Factory Warehouse Corn. recently met with his develoner group for hunch. The big item on the acenda? Getting to know one another better.

Though Friedman already knows many of his staff members, be doesn't know all 250 and has lost touch with some over the years. Moreover, he says, these informal meetings allow for a casual set important bonding that doesn't happen every day. "Everybody is working so dilisently to set their jobs done that it's next to impossible to have that kind of interaction," Friedman savs.

Such meetings are important because they "open the door" for honest communication with his staffers "so they feel they can express their opinions and that their opinions are able to me," he says.

"I'm not the guru when it comes to networking or database design. but if I have people with that expertion and there's a trust between se that makes for a stronger organization all together," he adds.

## This is the way it's going to be," Mitchell says. To social that he worked to establish a team em

conment, where he and his staff collaborate to make the best decisions.

### Make Your Mark Shearan didn't plan an all-out shake-up for the IT de-

partment when he was promoted from executive vice present of technology to executive vice president and CIO at Pittsburgh-based Mellon Financial. But he did make management changes to align his team with his way of working. For instance, Shearan scrapped his predecessor's

review process for major projects. The former process involved a lot of people sharing ideas in a roundtable format that he says just wasn't his style. "My belief

Reach Out to Peers CIOs promoted from within have the advantage of already knowing their colleagues, but Shearan didn't assume that he knew all he needed to know about

his new peers' work and how IT could support it. He wanted to be sure he understood their priorities and figure out how he could address them as the new leader at the below

"I sat down with these guys on a number of occasions to really get at what is important to them that might have been put on a shelf," Shearan says. He also asked if they felt there were technology initiatives that didn't add value

"It was important to them, and having those conversations gave these guys the opportunity to just

Continued on page 51

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CONNECTED BY

# Constituted from pope 48

commune yrom page o pen up," me expuants. I ibewier, Shearan built new ton. level relationships with wandow that sever reading with his second to a CIO he says "I found I had access to the wender executives. They are a felou

latest management One ment and ernet with a sundor One meet-ano-greet was a vesses executive led to a joint project to work on a new research canability be save

Recognize the New Dynamics Newly named ClOs acknowledge that the reconcition creates new dynamics in the officer Press become subordi-

nates superiors become peers. "There's the notential for discomfort But my rule of thumb was that I will treat (my employees) the way I want my boss to treat me "Bartlett cour and

that's with respect and acknowledgement for a job well done ent for a job wess uone.
Rartlett acknowledged early that the roles had changed, and he spelled out his expectations of his staff "One of my first conversations with my direct reports was a request Themite the fact that I'm now your boss. I need you to be open and honest with me when there are things I can do for you or

things was shigh I sould be differented And the other was a statement Being consistent with my principles of open and honest communication. I'm coing

to tell you when you need to do some thing differently." he com Dealing with superiors-turned-peers also necessits challenges, which is why Doublet and others are it's best to form

on building relationships with colleagues sooner rather than later When Shearan was promoted, he made a list of people with whom he made a list or people with wisom me needed to spend time to better understand their roles in the business

## Prepare Now

It's named too early to law the second work for a move up. Bartlett save he started preparing for the CIO job years started preparing for the CaO 500 years son. "I explicitly and deliberately created a development plan," he save. He area a development pain, he says. He emulated executive behaviors he admired and "nerwided clear value" to the inhe he held on his way un. He even sought the help of his

predecestor, at one point askine him. If you were going to go be a CFO somewhere, what would my performance need to be for you to want me to some with you to be your CION Rarriers says his pendecessor, now

the company's chief operating officer the company's core operating outcome assigned nim corporatewide initiative and responsionates that broages in Bartlett ever bie boss was instance.

tal in "helping me have the concertural. car in neiping me nave the opportunithe class choice for CIO"

Pratt is a Computerworld contributing writer in Waltham, Mass, Contact her at my soci in Franciscom, 20035.

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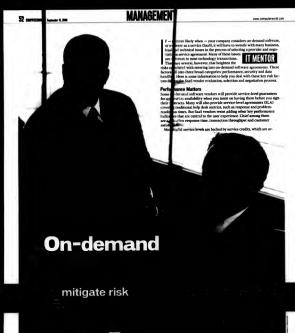


IT Management

to tree, he sage: If a s left imply at the tree.

riell, who is COO at TO Assertionic, feated a very to a

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dinarily applied to your invoice when performance falls below a predefined threshold. But vendors often try to incornerate into their SI As overly broad exclusions, procedural hurdles and lishifire limits. As a result actual performanner currentees tend to be considerable worse than they appear. Through nereistent negotiations however you can pechan the opening exclusions hundles and liability limits wenders try to include Here are some techniques that our hole won

I Include escalating credits that ware hand on the separity duration and fremore of the perference follows

 Require the wender to proportisely Require the vendor to proactively failure is identified Remove provisions declaring that service credits are substitutes for other

contract remedies available to the cur-■ Limit maintenance windows to a

predefined off-hour time period As a general rule service-level condits along arms? enough for you to effecrisals enforce SLAs. Consequently was

have to peopliste SI A improvement to fill the gaps. Here are some eap-filler ■ Insist that the vendor conduct a most-cause analysis and implement a

correction action plan without additional past to use Escalate chronic or critical services level problems within the sundor's and

vour own senior mana I Inchale war right to terminate the agreement for cause or shorten the

term of the agreement when performance failures reach critical levels

# Fetablish a service-level manage ment annough that allows you to monitor the vendor's performance

Conduct periodic performance. review meetings with the vendor. Not every on demand application has to be designed to provide premium levels of service across a wide variety

of performance indicators, Because your company depends on its enternrise annijeations, however, minimum els of acceptable performance mus he arrained in order for you to receive the basic benefits of SaaS. If you and the basic beneats of SaaS. If you an performance thresholds in advance is's unlikely that your expectations and the vendor's delivery assumptions will conform leaving you in an uppleasant and materially math and income

**JANAGEMENT** 

Fynosino Security Vulnerabilities Security vulnerabilities in a Web are vice on demand software envisorment may occur for a variety of reasons. such as design defects poor patch/

late management, ineffectual controls of authentication credentials, storone and transmission of sensitive data without encounting and inchesses procedures for security incident mor toring reporting and mitigation These

vulnerabilities aren't unique to ondemand software, but they are more pressing in the on-demand software To increase the likelihood that move SaaS arrangement will be sufficiently

secure was must make security one of the determining factors in vendor evaluation and relection. As next of the evaluation process, you should do the 1. Require the wendor to describe its nhysical and logical security practices

processes and management approaches as their relate to the seminer offered 2 Ask the wender to indicate whether it will comply with your security poli-

cies and procedures 3 Evaluate the wendor's escurity nesctices, processes and technologies — all before signing the service contract Seek the right level of security given the context of the application, but try to

avoid overburdening the software with unpecessary and notentially expensive security features. To achieve this balance, the negotiated agreement should document ways accurity requirements and the windor's security responsibilities. Here are some other accurity, related provisions worth including

# Acknowledgment of your right to conduct periodic security assessm Assignment of responsibility for

security incident detection reporting

response and mitigation. ■ Vendor representations and warranies regarding its compliance with datahandling laws and regulations A propose for management accula-

tion of unresolved security problems. Once the contract is sismed you must use the mechanisms you negotisted to oversee the vendor's security activities. Although you can delegate certain responsibilities for security-related tasks to service possiders ultimate accountability for protecting your information

peares always remains with you. Controlling and protecting customer data should concern anyone considering software that were databases designed hosted and administered by a windor to store and retrieve customer data. When negotiating data protection and business continuity contract provisions, you should rely on key principles to help you

manage the risks that arise when you important data is stored and processed by a third party outside your firewall. In light of the risks associated with

remote storage of critical customer data. you shouldn't entrust a vendor with your data unless I) the vendor demonstrates its data protection and business continuity capabilities during your precontract due diligence, and 2) your agreement with the wondor specifies the vendor's ongoing data protection and business continuity obligations and holds the vendor liable for failures to

satisfy those obligations. For companies with international operations or companies operating to certain industries in the U.S. such as financial institutions or health care providers.

the contract quote to perceibe the metion and a present the places respective obligations to comnelsean lane. The sealinghis days are tection laws may come from a variety of bridge interest in the constraint for status where your common does busin ness and the countries (or states) where your date is appropriated as stored. The contract should incorporate the relevant portions of your neighbor and

obligate the wendor to conform to those outigate Standard sendor disclaimers of responsibly for lost data are not acceptable in a SaaS deal. The estrate assuments

should do the following: 1 State that your commons owns its does and has access to it under terms.

Affined by you Describe the sundark and your re-

manufallities in assessment on with account sponeautices t 3. Have clear instructions on how the

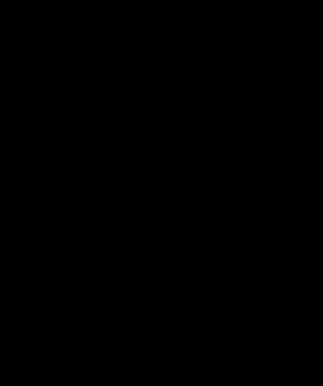
vendor will handle your date in its nossession and return it to you when the contract expires or is terminated Even more important, make sure that

your data is backed up regularly so it can be recovered whenever the primers data source is lost, corrupted or unavailable. To complement the backup percendures insist that the sandor implement (and regularly test) a disaster recovery plan Effective disaster recovery plans specify the maximum time it will take the wendor to recover from catastrophic events, and they will trigger servicelevel credits or even termination rights when the time limits are missed

Ear applications that are mission. critical, you may want to exclude from consideration tow on-demand cofewers that doesn't offer business continuity services employing days profication in geographically diverse data storage

The financial incentives and rising industry frenzy will pressure many companies to look at the SaaS delivery model to decide whether it represents a meanineful alternative to on-premises enterprise software in at least som instances. At this critical point to the evolution of on-demand software, you should insist that wendors solve the key challenges facing you as a customer before you subscribe. By doing so, you can benefit from the SaaS value proposition secure in the knowledge that you seen't exposing your company to undue risk.

Lindsey is a partner and Gambon is on associate in the Washington law firm of Levine, Blaszak, Black & Boothly LLP. Contact them at mlindsey@lb3law.com and jgamboa@lb3law.com.



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■ Include escalating credits that vary hazard on the severity duration and frecountry of the performance failures ■ Provide the wender to proactively

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ment approach that allows you to monitor the vendor's performance. Conduct periodic performance

review meetings with the vendor. Not every on-demand application has to be designed to provide premium levels of service across a wide variety of performance indicators. Because your company depends on its enterprise applications, however, minimum

levels of acceptable performance must

he excised in order for ...... the attained in order for you to receive your pender felt to downers ministrayour venior is it to occument ammunity unlikely that your expectations and the conderly delicent accommissions will confrom the convery assumptions was connotentially costly prodicement

Exposing Security Vulnerabilities Security subserabilities in a Web consecurity valleractings in a vice sermay occur for a pariety of reasons may occur for a variety of common such as design defects, moor natch/ undate management, ineffectual controle of authorization and acticle ston without encryption and inadecoramanous circly priorit, and mindequipe toring properties and mitigation These trade anabilities areast unique to on demand software but they are more

pressing in the on-demand software Present To increase the likelihood that your Soas arrangement will be sufficiently secure, you must make security one of the determinate factors in steadow evaluation and selection. As part of the evaluation process you should do the

following 1 Require the vendor to describe its nhysical and logical security practices. processes and management approaches as they relate to the services offered

2. Ask the wendor to indicate whether it will comply with your encurity policies and procedures. 3 Evaluate the vendor's security news.

tices, processes and technologies - all before signing the service contract Seek the right level of security given the context of the application, but try to

avoid overburdening the software with unnecessary and potentially expensive security features. To achieve this halseen the parentisted accommon should document your security requirements and the veodor's security responsibilities. Here are some other securityrelated provisions worth including

Acknowledgment of your right to conduct periodic security assessments. Assignment of responsibility for

**JANAGEMENT** 

security incident detection reporting response and minimation ■ Vendor representations and warran-

ties recarding its compliance with data. handling laws and newlestons A process for management escalation of unperchad accurity problems

Once the contract is signed, you must use the mechanisms was negotiated to oversee the vendor's security activities. Although you can delegate certain so

enonsibilities for security-related tasks to service providers, ultimate accountability for protecting your information assets always remains with you Controlling and protecting customer

data should concern anyone considering software that uses databases designed hosted and administered by a vendor to store and retrieve customer data. When nepotiating data protection and business continuity contract provisions, you should rely on key principles to help you manage the risks that arise when your by a third party outside your firewall. In light of the risks associated with

remote storage of critical customer data, you shouldn't entrust a vendor with your data unless I) the vendor demon strates its data protection and business continuity canabilities during your precontract due diligence, and 2) your consequent with the condenses of fire the vendor's ongoing data protection and business continuous obligations and holds the vendor liable for failures to satisfy those obligations.

For companies with international onerations or companies operating in certain industries in the U.S. such as financial institutions or health care providers.

the contract made to proceed to the named and a second state of the second state of the nly with andicable data reconstitute and property laws. The applicable date now tection laws more come from a variety of incidental and including the countries for states hadron room company does been states where your company does past same data is proposed or stand. The contract cheeld income and the arter are portions of your newscar policies and obligate the worder to conform to the -- lime

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your darn is backed on negatively used can be recovered whenever the primary data source is lost corrupted or unavailable. To complement the backup procedures, insist that the vendor implement fand remilarly test) a director recovery plan. Effective disaster recovery plans specify the maximum time it will take the vendor to recover from catastrophic events and they will reigner services housed consider our many terrainment in a ticker when the time limits are missed For applications that are mission-

critical, you may want to exclude from consideration any on-demand anfroate that doesn't offer business continuity services employing data replacation in peographically diverse data storage systems

The financial incentions and rising industry frenzy will pressure many model to decide whether it represents a meanineful alternative to en-promoses enterprise software in at least some instances. At this critical point in the evolution of on-demand software, you should insist that vendors solve the key challeners facine you as a customer hofore you subscribe. By doing so, you can benefit from the SaaS value proposition secure in the knowledge that you aren't exposing your company to undue risk.

Lindsey is a partner and Gamboo is an associate in the Washington love firm of Levine, Blaszak, Block & Boothby LLP. Contact them as mlindsevia th Have comand isamboa'a'lb Haw.com.

### HAME CHELLEY CHELY

JOB: BUSINESS ANALYST CONSULTANT EMPLOYER: TO AMERITRADE INC.

YEARS IN CURRENT SPECIALTY: EIGHT

### that is the most important contribution you make, and how do you make it? Being a liaison be-

W even the business and the tech sides. Our job is to understand the business or user need and remaker that to the tech folks and make mur they deliver. The thing I produce is usually a requirements document, which may seen shall, but the act of gerings to that is the generative to the same of the log contribution I make. I have to think of things in new way get to the beart of what we've trying to accomplish. I like the contribution of the same of the like of the same of the same of the like of the same of the like of the same of the like of the same of the same of the like of the same of the same of the like of the same of the same of the same of same

### What is the most important IT shiftipethole you must be do your job? It's analytical think-

ing. Some people are natural business analysts because their brains work that way. You just naturally teat everything apart to figure on how it works, the recompartmentalize, regroup, redefine move things around and see how they can work differently. There are not many people who can walk something through and see if we have everything. They get to the seas and asy. "We forgot about z." July pob in to think of that a copt way. And I feel instellment when the seed of the copt way and the seed of the seed o

What is the small injustical and cells or permeating characteristic, you need to do you just 77 the first thing is to listent and hear what people are saying—and not just the words. You know the cell fir joke: We gave them what they asked for but not what they wanted. Well, that's because you dishrt hear something, it's not just what they are just you wanted to be a seen of the people of in and dig. It's about listening and askingneousle to define the terms and not a

mine you understand. That's the key

What he biggest indexcouption short what you don't This is not a particular problem here, but I think generically people may think. The a glorified note-taker. They think people say, "This is what I need," and I write it down and make tech build it. But you have to really engage people sad help them figure it out, and you get to whish, too. That what makes it exciting. You get to use analytical and listening You get not use analytical and listening skills and help them create the best sold-

# The Skids

Business analysts seek the quickest route to business benefits.

# WILD'S WILD IN IT

tions. It's not just taking orders. We all

What do you'll be best about you jid? I get to use a lot of different skill seets. That's what led me to technology in the first place. I get to use both sides of my brain, work with a basiness group and have the state of the state of the state of the I also have to be enablytical and think though the details. I have to know how technology works and slen how to noportise with the client: "We can't do this in this time frame, but how would this work for you?" To a translator.

What do you the inent about your job? I feel in some cases, we're our own worst customer. When we try to define tools to help ourselves our, we let ourselves do things we wouldn't let our regular clients do — like scope creep — and we don't get anywhere. It's often not a high-priority

item, so everybody gets reassigned and we stall out. I think, "We're good at this; we doing?" It just seems like we can't use best practices on ourselves.

What should other IT people know about year min? The answer is the same for IT and

with The answer is the same for IT and business people. Securine my job is to champion the best solution for clients and technologists. To do so, I must use the project team make the best decition. Tech fields using me questions that require a business response, and I need to know if I can demand to the best decition. Tech fields using me questions that require a business response, and I need to know if I can demand to the technologists of the project and business needs. If try to be the good opy all the time, to the land of the project and business needs. If the project and business needs.

have to give a little.

What would make you to 6 your its batter? I chink when I do my job best is when the business roles are clearly defined on a project — when I know who the ultimate decision-maker is Especialtion in times of fars growth and translation and new organizational structures. I don't always know who owns what, and it takes time for one to track that down. When there's a really strong person on the business side who can give me proper mid-figure.

If you were not a bankons analyst, what would you le? I think I would become a trainer. One of the parts of my job I really like is working with crossfunctional groups and [helping them figure out] what't he best thing to balld. And I help train new basiness analysts. I really enjoy thak kind of work.

there does the laters look for year rain? I waz at a business analyse conference last year, and they said the demand for business analysis was going to increase. I think the role has become more defined. They was provided to the conference of the conference year. I was a support of the conference of the New Vis parting to where people really understand requirements, analytics, project management. I think people are society for business and This conference person with or fides the frace between business and Th. So it look good for me personally, and from what I've read, the fature is pretty bright. I'

Interview by Kathleen Melymuka.



# Avoiding Layoffs Getting Ahead

- The Orenas abia Amoracan: I qualify and Their Consequences, by Louis Hobitelle (Knowl 2014 pourse \$25.95) Lames would have the and outcourt ing hose gradually become accepted husiness practices over the part 10 years among company books and Wall Street analysts, who have been in an incited and passed in a shout come rate dividend and cornings pershare annuth The tasis accommon of heaffer and outcomering by ton brass is unforturnete marticularly for the millions of editation on Atheris Comillion who have been affected by these costicutting between job security, employers inconmoneyone Author Louis Lishiroffs arones that CEOs should strive harder to find alternative approaches to improve

g carnings. Echirollo an acantavinnino con-

A CONTRACTOR OF short, and long term effects of I maffe sacer and respect to the training including The Stanley Works and United Air Lines Inc. Harden and hine the key transformational economic time may stranger maniform economic U.S. business landscape including the sice of alphal competition the demise of U.S. manufacturing and an upward chift in the number of lower-revine house shilled inhe conilette in on in creasingly services led economy Ushingly dense a roll-fragmention

tives and output, particularly during about and the part of the second seco markets were tight and domestic and intermetional profits were greating at themrecord rates. It's a polymont reminder months on took solds in

the communies they worked for and felt like members of a family Still for all those strengths, many of Lichitelle's properintions to reduce the number and frequency of future lavoffs seem a hit nie in the sky. For instance, although Uchitelle is on target in station that the federal sovernment should divert more investment into the nation's crumbling

discussion about communication styles and skills, and the second highways, bridges ed infrastructure to half is packed with gold plate U.S. Joh magnets, Here Smith with his suggestouches on a variety of m that Uncle Sam pertinent topics that you said "take the lead" don't normally come eloping ementacross in IT leadership echnologies that books. These include private sector has ips on how to prepare med too risky such for a meeting with an as alternative energy executive recruiter and great forums for sources or flat-ponel

screens, simply isn't

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networking. Smith's book should

Monothology Hebitalle's book is a thought association and for IT and business manusers alike who should pusiness managers arme, who are an barren Errob Committee about

- Straight to the Top: Becoming a Marie Clare CIO to Comming a (William Not manus #24.06) The Uther and purgers, acrossors around for decader such as CFO -- 4 about the second of the second of the second of Cities intalicial ottoces, cuter into thank

tion that comics analysing menopolishills tion that carries crossing responsibility have been written about IT leadership by management consultants, received few have been penned by an action CIO

Courses & Smith vice provident and ClO at the World Wildlife Food in Washington for the meet six more FT object with a well. constructed quide for the skills that can belo the same that can be q

then IT food chain This book has a lot going for it starting with on outhor who has elected of hands-on experience. But own though Smith has crafted his own succossful carner nath and charted on effective IT

enwernance strategy at WWE he deem's released on his own accomplishments and insights. Instend the book draws extensively upon memoral from advisory firms and antorviews with other CIOs and executive recruiters. It's also sprinkled with plenty of interesting charts and memorable awater to help break up the reading The book is split into two sections: One focuses on building the necessary skills and relationships to become a CIO. and the other looks at preparing for the

role of CIO. The first segment contains

many useful insights, including Smith's ₩ISDOM NETWORK

he on the resulting list for any I'T profes sional with CIO emirations

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228 pages, \$27951 Character bissess aballoness some rate executions from in how to conture and use the next seem of knowledge from the form the manager and or who make an occanization hum. A his mast of the model on an the authors on; part of the protects, as the authors showfully point out is that "knowledge complete fortuned in monthly brains or in a company's pooks and crannies because the knowledge each anne system

> Without a doubt, offaction is needed as man receive automotion but arrains exid than done But the outbook do a succe mond ich of describing comething that's quite often intancible: the etens that executions and about darks to unlock and leverage their organizations stellectual capital

Renton who is executive director of IT at the Chicago office of TIBE leverment Bank and Giovan noli, founder and president of Chicarn-based consultancy Networlding Leadership Resource Center, do a ter-

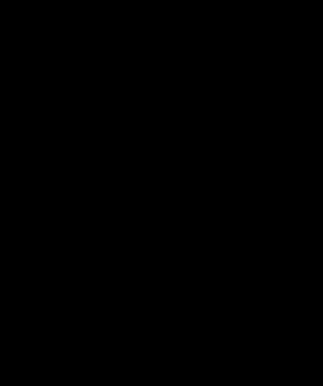
rific job of drawing from each other's respective experiences and providing neactical insights that readers can apely For example they explain how to identify the people who consistently resolve problems in the organization and they suggest steps that leaders can take to foster collaboration and break through communication barriers that calcify between corporate walls and

...... What I like most about this book is that it isn't the usual academic blather about knowledge management, Instead, the authors draw from their own work lives and provide a sten-by-sten road map for knowledge management that readers can follow b

Reviewed by Thomas Hoffman



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# **Avoiding Layoffs** AGetting A

The Disposable American: Layoffs Lichitelle (Knoof, 304 pages \$25.95) Large-scale lawoffs and outsource ing hour gradually become accomted husiness practices over the past 10 mare among company boards and Wall Street analysts, who have been increasingly demanding about corporate dividend and earnings-per-share growth The tacit accentance of lavoffs and outsourcing by top brass is unforname narricularly for the millions of victims and their families who have hose affected by those cost-cuttion measures. Author Louis Uchitelle armes that CEOs should strive harder to find alternative approaches to improv-

ing earnings Uchitelle, an award-winning economics writer at The New York Times. does a complemental tob of employing the short, and long-term effects of lavoffs on a bandful of workers at companies including The Stanley Works and United Air Lines Inc. He also evoluing

the best transformational economic developments that have altered the ITS business landecane including the rise of clobal competition, the demise of U.S. manufacturing and an upward shift in the number of lower naving lower-skilled jobs available in an in-

manufacture part are led accommi Hebitelle draws a solid connection between job security, employee incen tives and output, particularly during the period of 1945 to 1970, when labor markets were tight and domestic and international profits were growing at thenrecord rates, It's a poignant reminder

of a time not so kope are when U.S. months and another to the companies they worked for and felt like mambers of a family Still, for all these strengths, many of Uchitelle's prescriptions to reduce the number and frequency of future layoffs seem

a hit mis in the eky For a abbass This help is on targe ting that the U.S. job cle Sam

to the load? wine concephu locies that vate sector has and two risky, such alternative energy ources or flat-panel screens, simply isn't well reasoned

Margarian Habitallah basi isa thought-providing read for FT and business managers alike, who should evolute all options for improving the bottom line before wielding the av

Straight to the Top: Becoming a World-Class CIO, by Gresory S. Smith

Chilles Mr. ---- \$14.05 Unlike component when that have been untike corporate roles that have been chief financial officer, chief information officer is still a relationly new designaofficer is sent a reservely new occupant tion And while a fair number of books hes. And white a fair number of books by management consultants, precions

fow home been penned by an active CIO. Gregory S. Smith, vice president and CIO at the World Wildlife Fund in Washington for provides would be STR MOTH

the past six years IT chiefs with a wellconstructed milds for the skills that can belo the same that can be the IT food chain This book has a lot so-

los for it starting with an author who has plenty of hands-on experience. But even though Smith has crafted his own successful career path and charted an effective IT

governance strategy at WWF, he doesn't rely solely on his own accomplishments and insights. Instead, the book draws extensively upon research from advisory firms and inter views with other CIOs and executive recruiters. It's also sprinkled with plenty of interesting charte and memorable quotes to help break up the reading. The book is split into two sections

One focuses on building the necessary skills and relationships to become a CIO. and the other looks at preparing for the role of CIO. The first segment contains many metal insights including Smith's discussion about com-

WISDOM

NETWORK

munication styles and skills and the second half is nacked with cold nussets. Here, Smith touches on a variety of pertinent topics that you don't normally come across in IT leadership books. These include tips on how to prepare for a meeting with an executive recruiter and event forums for preworking

Smith's book should

he on the section list for any IT profesbe on the reading list for any

- The Window Naturals: An R. Sten Process for Identifying, Sharing, and Leveraging Individual Expertise. In Leveraging individual Expertise, by

(American Management Association 228 pages, \$27951 One of the biggest challenges corpoone or the biggest changes curpoand we the west seem of becomed about from the front-line managers and work from the tron-line managers and work his part of the problem as the authors channelly point out in that "knowledge remains lodged in neonle's brains or in a company's pooks and crannies be-

is ineffective."

and a company of books and crammes or Without a doubt of fective knowledge man ve susowieuge min said than done. But the surbors do a wery one authors do a very thing that's quite en intancible: the ps that executives nd should take to wik and leverage or organizations udlectual capital Benton, who is executive director of IT

at the Chicago office

of LIRS Investment Bank, and Giovae noli, founder and president of Chi caro-based consultancy Networlding Leadership Resource Center, do a terrife-inh of drawing from each other's respective experiences and providing practical insights that readers can anply. For example, they explain bow to identify the people who consists resolve problems in the organization, and they suggest steps that leaders can take to foster collaboration and break

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Thomas Hoffman



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Think your data is accurate? Think again.

TAXONS COME is a dinert solecompany in Discor. ton Drab that m must write man and distributor make as an arrange recoling to the summer of 2004 or the end of its bieb-

out a block personn. Stammin' Un's manufacturing resource planning system stormed sending the commune underto make more stamps because it was showing that the items were already in stock. But it was inventory that didn't exist. The cultrir dirry data "In touck a few days to funnes it out "

says Steve Gockley, manager of Web infrastructure Web sites and business intelligence and analytics. "Once it was found, we had to cut work orders and do some emergency manufacturing Lucks for Stampin' Up the backboard

products weren't available from competitors. Ditherwise, customers might have motive elsewhere. But employee marsksuffered. "It takes a while to build confidence back up," says Gockley.

Dirty data is data that is incorrect missing or misplaced. And it's every where. In a 2006 poll of LI60 knowledge workers by Harris Interactive Inc., 79% of the respondents reported having made critical business decisions based on faulty data. "In any company of any

sing dien dans is a factor? once Cachine That's because data is dynamic by natura Manually antering data into entine systems or recurrosine data or comething to simple to a contempor moving dving or marrying can mess things up. The trick is to find errors and

"A lot of determining whether data is diety is about looking at trends "even Source Nonken, financial reporting systoms manuage at ABR Inc. a remodely of power and automation products in Norwalk Conn If you're looking at data

Elbow Grease

# By Catherine LaCroix

ate man to be true it probable in tange to be true, a process, as.
Also look for errors in data drawn from multiple sources and form us Move Inc. in Westlake Village, Calif. secretary listings from real estate more and broken. "We have not the data whatever was we can "says Bill West director of husiness systems. The result a high possibility of errors he

10.401 Ottoverson know tourboared faults data you've not to fix it, and the burdles may he more than technical Posselom as he ndo a set to religensish control of their teneral control of the control of th continues can not impatient. They more" your Birs Mathews data work. hours into more near at Marco

Cetting executive burning our help So on abouting over their the process and complexities of data was housing "Wa house learned that the finemeness of the same assistant the frequency and made" Mathema combine

Another challenge, says Weir, is keepine data elean once you serob it. That namina coma constit Assistana shout data-quality covernance enforcement and registerance. The commitment isn't just to the cleanup ways Work but to thou data mality will be enforced and what the integration and exhitectural enidelines should be for data quality

the near and for an amount process. says Matheus, for example because Move often finds multiple listings of the same property, she has had to make de-during for deletine multiple records) married bur navier

"It's not a one-sten process," says Robert Lerner on analyst at market procurely term Heavy Reading in New York. John Leslie agrees. The chief technolout officer at Wall Street On Demand Inc., which hosts financial research Web sites, was that establishing a vestern of

data checks is key to keeping the comconstitution of the state of th some or that if a number out how an YAH will paper it out and validate that it is Lucino ambione

"Adding in those kinds of checks is town connect one "however "You con't have tack quality at the end; you have to huild it throughout the process Any way you slice it it's point to take time and money to get your data clean We spent a year on this issue," says Gackley And Weir yays Mone has sport

Cann non to COM now in time and took malama touch an few But it's worth it Lerner was power on investment can be calculated by figuring the costs saved by avoiding the erroneous results and the regair work assocontrol with inaccurate data. But the real payback is having an accurate picture of your organization and a better under-

standing of your contomor, by add-Accurate information on sales calls is less for Los Alania director of sales. operations at Reultoncom, a subsidiary of Move "We now have a higher confidence that I'm not contactine someone shout property that was sold two or three weeks ago," Alaniz says,

There are also less-taneible benefits There we what it really note into is removed tion," says Leslie, "We're in the business of belging the individual incorper make an informed decision. If the end user loses confidence in the data, it's our regutation on the line."

LaCroix is a freelance writer in Portland. Ore. Contact her at catlarrois a conscast not



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DART DEDUCATE

# **Budget Busters** Are Looming

VER the past few years. Sarbanes-Oxley Act compliance as well as privacy and security regulations have wreaked havec on IT budgets. Despite the difficulties, many companies have made good progress in these areas and their CIOs are looking forward to more

budget flexibility in the part for some Unfortunately new hardest basters learning on the borings will continue to affect IT spending. Start planning now for

these approaching costs Wate While many IT or. comparison on planning extended evaluations of Microsoft's new approxima system, most will probable inetall it within two years since the company claims that Vista offers significantly enhanced security. Unfortunately few PCs are nonceful amough to approprie Vista. In addition to ravine

licensing costs, most opennizations will also need to replace most of their PCs. E-waste, Disposal of PCs, printers, corners and phones is becoming more difficult and expensive. The Furunean Union's Restriction of Hazardous Substances regulations mandate strict disposal methods for lead and other hazardous electronic waste. Congress is

considering similar measures, including the Computer Hazardous Waste Infrastructure Program Act and the Electronic Waste and Recycling Promotion and Consumer Protection Act. In addition to hardware recycling, companies would be responsible for completely erasing disks to ensure that company data is not compromised and that software licenses are protected. Proper disposal could easily cost \$60 to \$100 per PC.

Major application suite upgrades. Oracle and SAP are developing major new releases of their software. Although both companies promise to support current



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applications). The inevitable relaration process will be large, complex and costly. Flactronic records returnion (ERR) Most oppositions have records-repention poli-

clay for contamor data area ployer recents and corporate data cach as memos presentations and encardshoots But fewer retention policies own or e-mails, instant messages. chat room exchanges, blogs, cell phone voice message or voice mails embedded in e-

mail Capturing organizing and storing this data is expensive, but it can be critical when level issues arise. In the event of lithration. I'I must be able to produce the electronic data and show that it is authentic and unmodified. (The stakes can be high. Morean Stanley client Ron Perelman recently won a \$1.45 billion indement against the firm when it was unable to turn over pomested e-mails to the court.) These newer forms of electronic data are proveing at rates of more than 50% annually and are lacated across a wide spectrum of devices. Most large companies will need to design FRR programs, implement far more extensive archival procedures and provide far more storage capabilities than before (See "Electronic Discovery: Managing

the Unmanageable," Aug. 28.) VolP. Low operating costs are speeding the migration to voice over IP. This technology supports a host of tools, includies videncenferencine unified some and compile and presence awareness At he shilling to exact a small on all shelling on a willingness to communicated According to Bill McNey new Line and Chilled San naturek Research, 70% of Fortune 2 000 companies will have at least one location that more ModB by the on Lof Street Implementation costs are high houseser and the present position many time than man the process requires have time to there are unreached questions parent increase reliability from a decembed callet and incompatibility because of a lack of standards. These issues can cause problems that possine large amounts of tochnical nassanasa ta nasaha

Web 2.0 capabilities. Comparmer-prioritied Web combilities twill is madenate social networking, mashups, etc.) are becoming increasingly important avenues for understanding and communicating with your customers and your workforce Most IT opening them have not entered and above to the 2 th commobilities into a besign cornerate architectures. Many of the products are fine; but interesting them into your infrastructure can be expen-

sine and problematic Infrastructure. Over the past few years, IT openingations have for used on bringlow down the cost of thoir infraction tures but not on reviewing their overall architectures. In fact, many companies haven't examined their architectures closely since V2k. New systems and the issues discussed above will have a tremendous impact on the cost and effectiveness of your infrastructure As you anticipate IT spending for the

next few years, include funding for these budget busiers. Even if the actual costs won't appear right away, start planning now for the financial impact. Use the lead time to educate your executive team about the big-ticket items. With good preparation, you will need to do less explaining - and less arguing - at future budget preiess.

WANT BUR OPINION?



Think your data is accurate? Thinkagain.

TAMPIN' UP INC. is a direct sales company in Riverton. Litab. that manufactures and distributes rubber stame supplies. In the

summer of 2004 at the end of its highest sales season, Stampin' Up's manufacturing resource planning system stoned sending the company orders to make more stamps because it was showing that the items were already in stock. But it was inventory that didn't exist The culturit dirty data

"It took a few days to figure it out." says Steve Gockley, manager of Web infrastructure, Web sites, and business intelligence and analytics, "Once it was found we had to cut work orders and do some emergency manufacturing." Lucky for Stampin' Up, the backlogged

products weren't available from competitors. Otherwise, customers might have gone elsewhere. But employee morale suffered. "It takes a while to build confidence back up " says Gockley

Dirty data is data that is incorrect. missing or misplaced. And it's everywhere. In a 2006 poll of 1,160 knowledge workers by Harris Interactive Inc., 79% of the respondents reported having made critical business decisions based on faulty data. "In any company of any

cina disea data is a factor " core Cookless That's because data is dynamic by nature Manually entering data intograting systems or recurnosing data. or comething as simple as a customer moving, dving or marrying, can mess things up The trick is to find errors and

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Flhow Grease

# By Catherine LaCroix

that seems too good, too had or just too strange to be true it probable is Also look for senser in data drawn from the late of the control of the Mose for in Westlake Village Calif and the second second second second eggregates instings from real estate agents and brokers. "We have to got the data mbatanas mau ma can " can Bill Weir director of business systems. The result: a high possibility of errors, he ----

Once you know you've not faulty data you've got to fix it, and the hundles more be more than technical People may be subsetant to religenish control of their data even to render it more useful. And customers can get impatiept. "They want to know why you can't fix it right more " core Bits Methews data ware. housing manager at Mow

Getting executive buryin can beln So can educating users shout the properties and complexities of data warehousing "We have learned that the frequency of a message is as important as the messome itself" Mathews evoluing

Another challenge, says Weir, is keeping data clean once you sensh it. That mg data ciean once you scrub it. I hat data-quality governance, enforcement and maintenance. The commitment isn't just to the cleanup, says Weir, but to "how data quality will be enforced and what the integration and architectural quidelines should be for data quality

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Inc. which boots financial research Web sites says that establishing a system of data chacks is less to keeping the comnany's data clean. "We've built our systurn so that if a wander sends us an YMI schema that says this field is a date wewill corne it out and validate that it is " Leelie evoluine

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nology tools so far. But it's worth it Lerner saws return on investment can be calculated by figuring the costs saved by avoiding the erro neous results and the repair work associated with inaccurate data. But the real payback is having an accurate picture of your organization and a better understanding of your customers, he adds Accurate information on sales calls

is key for Lee Alaniy director of sales perations at Realtor.com, a subsidiary of Move, "We now have a higher confidence that I'm not contacting someone about property that was sold two or three weeks ago," Alaniz says.

There are also less-tangible benefits. For us, what it really gets into is reputation," says Leslie, "We're in the business of beloing the individual investor make an informed decision. If the end user loses confidence in the data, it's our reputation on the line."

LaCroix is a freelance writer in Portland. Ore. Contact her at cattacroix@ comcast net



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DART DED KING

# **Budget Busters** Are Looming

VER the past few years. Sarbanes-Oxley Act compliance, as well as privacy and security regulations, have wreaked havoc on IT budgets Desnite the difficulties many companies have made good progress in these areas and their CIOs are looking forward to more

hudget flexibility in the next few years Unfortunately new hudget busters looming on the horizon will continue to affect IT spending. Start planning now for these approaching costs Vista, While many IT orespirations are planning

extended evaluations of Microsoft's new operating system, most will probably install it within two wars. since the company claims that Vista offers significantly enhanced security Unfortunately, few PCs are nowerful enough to support Viets. In addition to paying licensing costs, most orgaafanting will also and to

replace most of their PCs. F-waste Disnosal of PCs printers copiers and phones is becoming more difficult and expensive. The European Union's Restriction of Hazardous Substances regulations mandate strict disposal methods for lead and other hazardous electronic waste. Congress is

considering similar measures, including the Computer Hazardous Waste Infrastructure Program Act and the Electronic Waste and Recurling Promotion and Consumer Protection Act. In addition to hardware recycling, companies would be responsible for completely erasing disks to ensure that company data is not compromised and that software licenses are protected. Proper disposal could easily

cost \$60 to \$100 per PC. Major application suite upgrades, Oracle and SAP are developing major new releases of their software. Although both companies promise to support current me for ward to more most customers will likely minute own the next two to three years for eventually face operating their husinesses on unsumported applications) The inevitable migration process will be large complex and costly etronic records retenti

(FRR). Most organizations have records-retention policies for customer data, emplower records and cornorate data such as memos, cresentations and spreadsheets. But fewer retention policies cover e-mails, instant messages. chat room exchanges, blogs, cell phone voice messages or voice mails embedded in e-

mail. Capturing, organizing and storing this data is expensive, but it can be critical when legal issues arise. In the event of literation. IT must be able to produce the electronic data and show that it is authentic and unmodified. (The stakes can be high Morean Stanley client Ron Berelman recently won a \$1.45 hillion judgment against the firm when it was unable to turn over requested e-mails to the court.) These newer forms of electronic data are growing at rates of more than 50% annually and are located across a wide spectrum of devices. Most large companies will need to design ERR programs, implement far more extensive archival procedures and provide far more storage capabilities than before (See "Electronic Discovery: Managing

the Unmanageable," Aug. 28.) VolP Low operating costs are speeding the migration to voice over IP. This technology supports a host of tools, inchaling videoconferencing unified voice mail and a-mail and necessary assurences (the ability to state one's availability and willingness to communicate) According to Bill McNey persident and CEO of Care entuck Research 20% of Fortune 2 000 companies will have at least one location that uses VoIP by the end of 2008. Implementation costs are high however and the process requires more time than most companies allocate. In addition there are unproposed questions record ine security reliability (such as dronned calls) and incompatibility because of a lack of standards. These issues can cause problems that require large amounts of trobaical associates to menha

Wish 2 0 canabilities. Consumer oriented Web capabilities (wikis, podcasts, social networking mashuns etc.) are becoming increasingly important avenues for understanding and communicating with your customers and your work force Most IT organizations have not integrated these Web 2.0 canabilities into their composite architectures. Many of the products are free, but integrating them into your infrastructure can be expensive and problematic

Infrastructure. Over the past few years. IT organizations have focused on bringing down the cost of their infrastructures but not on reviewing their overall architectures. In fact, many companies haven't examined their architectures closely since Y2k. New systems and the issues discussed above will have a tremendous impact on the cost and effectiveness of your infrastructure.

As you anticipate IT spending for the next few years, include funding for these budget hosters. Even if the actual costs won't appear right away, start planning now for the financial impact. Use the lead time to educate your executive team about the big-ticket items. With good preparation, you will need to do less explaining - and less arguing - at future hadnet reviews #

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## **Business Objects Adds** SRC Software to BI Suite

Combined offering expected to allow both financial, operational analysis

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noshute The common sector the budgeting planning and functional parties are in its

\$100 million purchase of \$800 Software live about a sour too. The interested enabled nnamises to let users analyze financial data and operational information using a single tool set according to ofticial, or Durie broad Business Objects They also rened that adding the SPC cofferences the Business Objects XI tool unite will help the comprone will products to organizations looking to whittle their lists of 101 newsiders

#### Deener Analysis

Brent Day, assistant vice presi-Anna or Street Blook and Albert company has been using the SRC tools for more than two years and is now installing the combined XI offering. He said he expects that the new tools will let users drill down to the respection level of data from various sources as part of the process of evaluating financial

performance We haven't wanted to burden our planning system with the transaction-level detail from the owneral ledger system." Day said. "Now we are looking at some different ways to drill down to thus darp and really analyze performance and understand better where non-cit tion and in life."

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children to provide the con-Dry also noted that "we ment to un top and not in a the oeneral lodger accountlocal datable but labed what

products a given household mar have Zions Bank expects to have the integrated Business Obsects VI cofessors in production many most stime at the items Objects wid the undated XI business intelligance affering

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and the state of the state of SPC planning budgeting and forecasting applications is will allow communics to combine day form plane budget and forevers, compiled using the SBC touck with the properties to be seen a contract of the dat resignalization bounced in VI Dono coid

Meridian Health which onorana three bornitals in New ferory, has used a beta version of the integrated tool set and plans to put XI into production on Lin L said Steve Especies contract to budget manager at the company in Neptune N I The biggest advantage to

terminated south formula to store integrated tools, he wild is that me former Sec. roots now sup port succession can personative nor Objects tool set already Action Discontinue printed Active Directory. bed being the CDC touled more mad pwint the Stoc. today was we ried to maintain a manu actions system Especial

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the interestion of the planning - Or the Control of the Pile code Con data sharing is complete now. incomplete new curity management desert he finished by December David O'Connell on englant or Nucleus Research Inc. in

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denortment " he said For example, O'Connell cold communics after have difficulty calculating profitabil ity when they have different contemp managing data about their subsidiaries, products and customers #

#### Continued from nove 1 NetBackun

software started shipping last October three months after Congresso Calif. based Sys mantee corneleted its \$13.5 billion acquisition of Veritas Software Corp.

Mike Adams, group manager for NetBackup product marketing at Symantee, said there are about \$6,000 NorBackup contamore Un cald that the more is unversible but that "amendotal evidence" indicates there has been "could not ske" from earlier versions so far.

Management Headaches Other users interviewed for this story cited problems with NetBackup 6.0's Job Manager service, which accepts backup ishe and then runs them Phil Rand, a senior systems analyst and systems admin-

icrospor or Courtly Duclific Hodversity and a new of Version 6.0. said that problems with the lob Manager function have significantly increased the time he spends managing the ---

The university has received in advance of Maintenance Pack 4 to help fix some of the HETBACKUP & O

#### Reported Problems

# Flores in Vault Mana = Flows in Job Manag

problems Pandenid Muhammed Shafi, a senior Unix administrator at Days tiv Corp. a manufacturer of

nseksond words in Lake Ear. est. III., said it took Symantos more than a month to pesolve a problem be encountered while starting to roll out the new version. Shafe said a multistreamed backup was able to restore files from only one

Incomparison he said Ver rion 51 which the community previously used, could perform restores with multiple

Mile Spander a Washington based Unix/Linux systems administrator at Northmo-

Grumman Corp. who migrated to NetBackup 6.0 from EMC Corp's Legato NetWorker, said he is "concrally happy" with Version 6.0 He noted however. that his company is having confecuration problems with advanced features such as data-

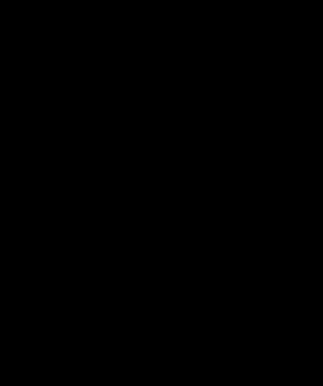
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Version 6.0 have been difficult Adams contended that the number of bars reported in Manching to this most cost of the ondinary for a release of its size. 'Any time you come out with a big-scale release, over time, the season received, over this

come in "be said Adams said be had not heard specifically of the issues raised by the users and did not know what problems

Maintenance Pack 4 intends Though some users may be holding off on upgrading from Version S Lto Version to 0. Adv are resinted out that Symantec typically sells a product

for two years or until the next major release. Version \$1 came out in June 2004, he said.



## **Business Objects Adds** SRC Software to BI Suite

Combined offering expected to allow both financial, operational analysis

USINESS OBJECTS SA mak that a line of ment took it acquired last year will be integrated with its own unite of business intelligence

The commany gained the The company games or underting, planning and forecasting software in its SIOO million numbers of SRC Software Inc. about a year aro.

The integrated product omicae to let meere anabres and data and assessional information using a single tool set, according to of ficials at Paris-based Resiness Objects They also noted that adding the SRC software to the Business Objects XI tool suite will help the company sell products to organizations looking to whittle their lists of no amendance

Deeper Analysis Brent Day, assistant vice president at Tions Bank said his company has been using the

SPC took for more than two wars and is now installing the combined XI offering He said he expects that the new tools will let users drill down to the respection level of data from various sources as part of the process of evaluating financial

"We haven't wanted to hurden our planning system with the transaction-level detail from the general ledger system." Day said. "Now we are looking at some different ways to drill down to that data and really analyze performance and understand better where we sit financially

to addition be said associate ing the performance manage ment and business intelligence tools will allow the Salt I ake City-based company to analyze profeshility Analysis from mined data on products like aid data to asserida information on profitability he said

ab arbitrary and assistant assistants can be menued with the finan-Day also noted that Tun need to understand not just the moneral ledger account. level details but (also) what nowherte a given household

man have " Zions Bank ernects to have the interreted Buriners Obiects XI software in production

Incon Pose director of planning marketing at Rusiness Objects said the undsted YI Objects, said the updated A1 Dustiness intelligence operation

SPC planning budgeting and forecasting applications. It will torecasting apprications, it w data from plants to combute forecasts compiled using the COC wols with the reporting. dashboards someoands and data visualization bound to

XI Rose said Moridian Mealth which onerates three hospitals in New lersey has used a heta version of the interested tool set and place to put XI into production on lan 1 raid Steam Ernorito corporate hadget manthe company in Neptune N I

torrower decade to and decades the former SPC tools now sunport Microsoft Corp.'s Action Directory services The Busiover Objects tool set elegate mess copects tool set antenny One of the booft we ----Une of the beets we asways un had to maintain a manual we pad to maintain a manu said noting that the integrated

SRC Undates

product will alleviate a los of work now done by Meridian work now done by Mers Produces Objects and that the interestion of the planning - Owner and the Ot tools for data sharing is complete now interaction of centralized seintegration of centralized security management sa

David O'Connell on analysi at Nucleus Research Inc. in Wellerlay Mass, said into eration financial and onerational data in the Buris Ohlanta total and mill allem users to get a more \*snoles-toannies" comparison for managing financial performance. \*Vou on notting a single services of the truth and all

the pieces of the truth are emanuting from the finance department," he said For example, O'Connell said

companies often have difficulty calculating profitability when they have different systems managing data about their subsidiaries, products and customers 9

#### Continued from none I NetBackun software started shipping last

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## **HP: No Surprise**

HV WAS I SURPRISED to hear that Hewlett-Packard spied on its own board members to find the source of a news story? I shouldn't have been Last year, just after Carly Fiorina walked away with \$21 million in severance pay. I ran a letter in my column from a demoralized HP employee "After all those cost cuts, stealth layoffs, expense and travel reductions, no raises for years no horuses, here Carly walks away with all this money after basically running HP into the ground," the anonymous reader wrote, "Oh well, tap me on the shoulder for that workforce reduction — I'll take the severance, the unemployment, and have a nice rest."

A week later on HP manager asked me "Who was your source?"

At the time I was more among at their office had Of course. I didn't identify the source, whose only miner was remarkless without a linear A-A I wrote off the question as coming from a gunghe manager who didn't realize how out of line it was - how completely contrary to everything

A . I I I I I I I Looks like I was wrong Now we've learning that in January HD Chairmannan Battis Dunn bired outside investigators to truck down aboundroom leak. The offending news story had neported on a marathon management retreat where HP executives and board members bashed our plans to use AMD chies, make more acquisitions. develop commercial printers and improve MPs internal technology for managing direct sales. According to news reports, investigators lied

to get the home phone records of the CNet reporter who broke the story. They also lied to get phone records of New York Times and Wall Street

And, oh yes, they also lied to get home phone neconds for the members of HP's board

Venture capitalist Tom Perkins mit the board in disgust when he found out. Then he refused to sien off on board minutes that claimed the board knew about the "pretexting" to get phone records. Now he's raising a stink that has reached the California attorney general scho's investigating what laws were broken

and he whom Something else has been broken though, for sure

That's trust. Especially our ability to trust HP For anything

Look, there's sometime spectacularly wrong with the culture of a

commences that down o'r toron its own or has been been That's not just personal. That's downer

And shore's comething even more wrone with a company that doesn't trust its own employees. the 150,000 nounte who actually do the work and make money for HP. That's a sign the not had reached all letade of management

Appropriately that not is not new Serving on members of the board is just the next logical step. It's the new HP Way, "Management by walking anyund" has now been fully replaced by secrecy

suspicion and spying. It's easy to say that Pattie Dunn should get the boot. And she should, if only because she has exposed HP to terrible publicity as well as potential criminal liability

But that's only a tiny fraction of what's needed. HP has lost its way so completely that a new warm body at the head of the table won't help HP needs a values transplant. Hard as it is to believe the company that once was the epitome of wise management in the IT business has be-

come a corrupt. Assignational travesty of itself We need an HP with integrity We need it because we can't afford to lose a valued partner a trusted supplier an industry leader But this mess called HP today?

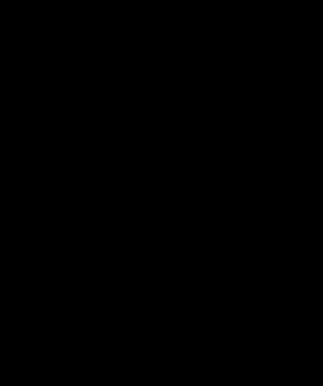
We can afford that even less. We know now that an HP that will chase after arombling employees in 2005 will lie to not phone records of its board members in 2006. And in 2007? Will we be hear-

ing next year that HP is spying on major customers to make sure they haven't defected to the competition? 1 Jon't know But I won't be surprised.

#### Fresh Out of Ontions

After two delectronisms a workstation's graphics probton without execute the IT and fish calls wonder tem without success, this is place that cans versus to provide the control of the case Fue almarks done that fich case "Why don't unu do it again with me on the phone?" says loch I certainly know how to install Windows. Ish tells him. "Well lef's try it arrower." Lim. no - what's next? "Huh?" Let's protend we set renstalled Windows and it still doesn't work, says fest, What's the new star? "But reinstalling Windows is the last resort

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EDAME HAVES - EDAMEIV CREATING

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larly wrong with the culture of a

company that doesn't trust its own leadership That's not just paranoia. That's despair. And there's comething even more wrong with

a company that doesn't trust its own employees the 150,000 people who actually do the work and make money for HP That's a sign the rot has reached all levels of management. Apparently, that rot is not new. Soving on

members of the board is just the next logical sten. It's the new HP Way, "Management by walking around has now been fully replaced by secrecy suspicion and soving.

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